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U. S. DEPARTMENT OF THE INTERIOR
PROTOTYPE OIL SHALE LEASING PROGRAM

OIL SHALE TRACT C-b
DEVELOPMENT MONITORING REPORT #7
(May 1981 through November 1981)

Submitted to:

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Conservation Division
U. S. Geological Survey
Grand Junction, Colorado

By:

CATHEDRAL BLUFFS SHALE OIL COMPANY

TENNECO SHALE OIL COMPANY
OCCIDENTAL OIL SHALE, INC., OPERATOR

January 15, 1982

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INTRODUCTION

Regular environmental reporting for Oil Shale Tract C-b in the current phase called Development Monitoring consists of the following reports:

<u>REPORT</u>	<u>SUBMITTAL DATE</u>
Six-Month Data Reports	January 15 July 15
Annual Report	April

Development Monitoring was initiated in April, 1978. Following is a list of semi-annual data reports which have been submitted to the Deputy Conservation Manager - Oil Shale.

<u>Report #</u>	<u>Date Submitted</u>	<u>Period of Data</u>
Development Monitoring Report #1	January 15, 1979	April 1978 - September 1978.
Development Monitoring #2 Time Series Plots	July 15, 1979 August 15, 1979	October 1978 - April 1979. October 1978 - April 1979.
Development Monitoring #3 Time Series Plots	January 15, 1980 February 1980	May 1979 - October 1979. May 1979 - October 1979.
Development Monitoring #4 Time Series Plots	July 15, 1980 August 1980	November 1979 - May 1980. November 1979 - May 1980.
Development Monitoring #5 Time Series Plots	January 15, 1981 March 31, 1981	June 1980 - November 1980 June 1980 - November 1980
Development Monitoring #6 Time Series Plots	July 15, 1981 August 1981	December 1980-April 1981 January 1981- May 1981

This present report, Development Monitoring Report #7, contains data from May 1981 through November 1981. The time series plots will be presented as a supplemental report for this reporting period, expected to follow this report in approximately one month.

In order to maintain accuracy in the data base and reports, for errors that are found requiring corrections from previously reported data, the following actions have been taken:

- 1) Summary tables in this report and the C-b computerized data base reflect corrected data to the best of our knowledge.
- 2) Cross-reference tables to data corrections and the corrected diurnal tables appear in this report.
- 3) Cumulative correction cross-reference tables are included in this report.

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1.0 PRE-EXPLORATION ENVIRONMENTAL RECONNAISSANCE SURVEYS

No environmental reconnaissance surveys have been conducted during the development period. The results of previous surveys are contained in Quarterly Data Reports #1 and #3 and are summarized in Summary Reports #1 and #2.

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2.1 Tract Photography

This section contains an explanation of work accomplished during the period of this report for:

2.1.1 Surface Program

2.1.2 Aerial Program

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
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Figure 2.1.1-2	CIR Photography Stations	I-9

An attempt has been made to refer to all stations by their four-digit computer station codes. For cross reference of these codes with corresponding station I D, refer to Section 4.0.

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2.1.1 Surface Program

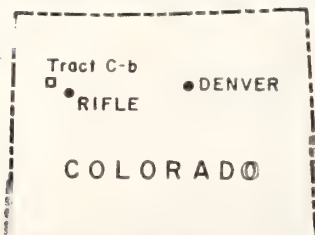
2.1.1.1 Color

Approximately 365° horizontal pans at the 35 photo points shown on Figure 2.1.1-1 were taken on July 7, 8, 9, 1981. These photos were developed as 35mm color slides and stored in a loose leaf notebook.

2.1.1.2 Color Infrared

Color infrared 35mm photos using color film with a Wratten 12 filter were taken on June 9, July 15, and August 26, 1981. These dates correspond to the Landsat overflight dates shown in Table 2.1.1-1. CIR photo stations are shown on Figure 2.1.1-2 corresponding to the springs and seeps locations surrounding Tract C-b. Mosacis will be presented in the next semi-annual report.

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SURFACE PHOTOGRAPHY NETWORK

⁶P = Photo Map Station

Figure 2.1.1-1

TABLE 2.1.1-1
Summer Landsat Overflights

(Path 38, Row 32)

1981

May 4, 22
June 9, 27
July 15
August 2, 20

Springs and Seeps Color Infrared Photo Dates

1981

June 9
July 15
August 26

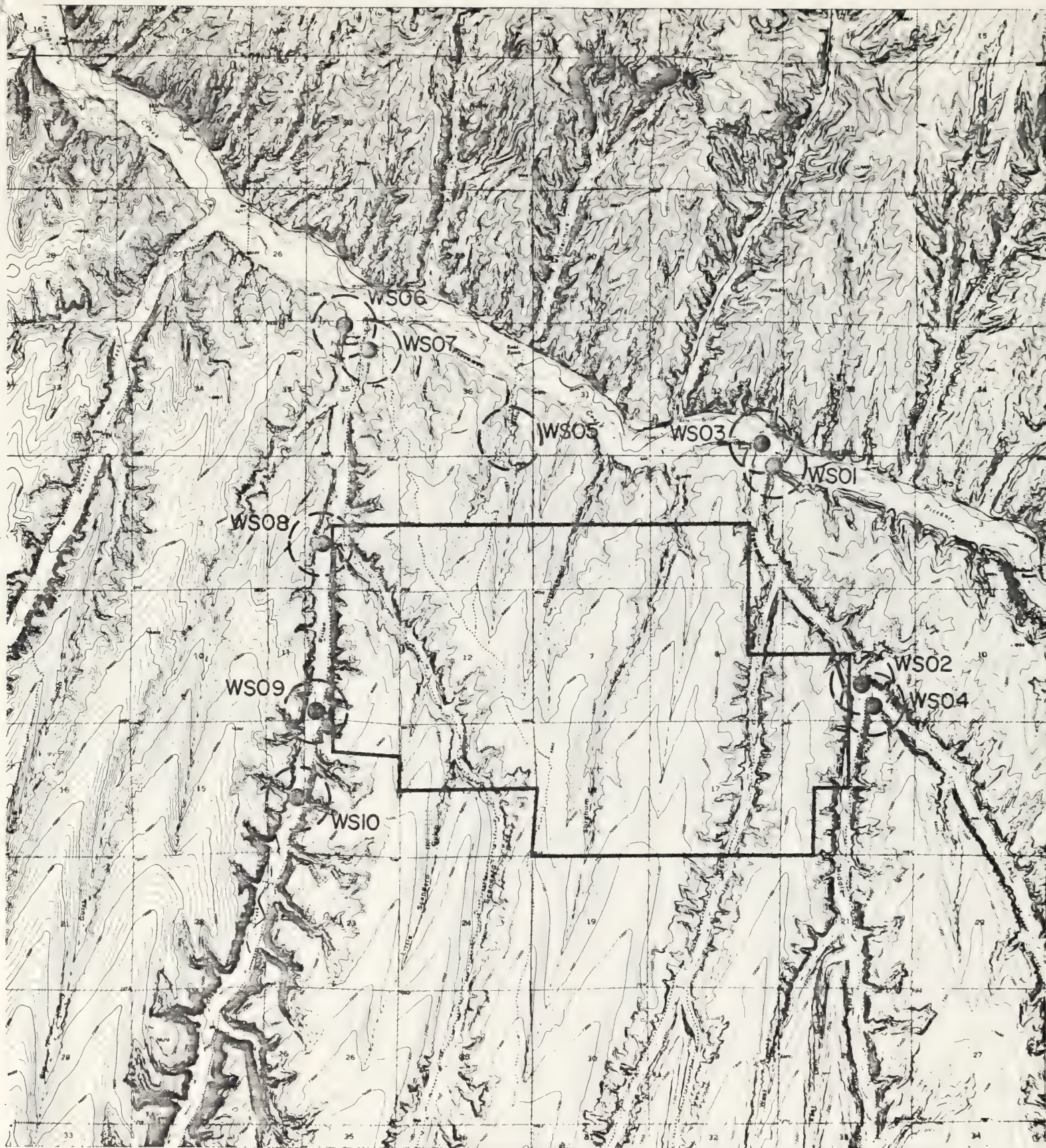


FIGURE 2.1.1-2
CIR PHOTOGRAPH STATIONS

○ "GROUND TRUTH" SITES FOR
COLOR INFRARED PHOTOGRAPHY

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AERIAL
PHOTOGRAPHY

2.1.2 Aerial Program

2.1.2.1 Landsat

Summer 1981 overflight dates are shown on Table 2.1.1-1 for Path 38, Row 32, which covers the general tract location. There were not Landsat overflights in Summer 1981 that were free of cloud cover, therefore no data analyses will be presented in C-b Annual Report in April 1982.

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2.2 Hydrology and Water Quality

Hydrologic and water quality monitoring frequency and laboratory analysis requirements vary by type and location of sample collection station. The requirements also vary between government agencies and purposes of monitoring. Tract C-b monitoring requirements have been detailed in these documents as follows:

DMP - Development Monitoring Plan prepared for the Oil Shale Office (OSO).

WAP - Water Augmentation Plan prepared for the State of Colorado Water Court, Division 5.

NPDES - National Pollutant Discharge Elimination System monthly report prepared for the State of Colorado Water Quality Control Division.

Exhibits A and B of the WAP, presented in jacket Figures 2.2.1 and 2.2.2 provide a complete list and location of the WAP sampling sites. Station coordinates and four-digit computer codes for current collection stations are presented in Section 4.0 Data Automation.

A summary of current and future water sampling frequency requirements by parameter and station type is presented in Table 2.2-1. Footnotes are used to identify special requirements.

Recompletion of Deep Wells on C-b Tract were in progress in October through December 1980. Figures of the recompleted wells were reported in Development Monitoring Report # 6 which show the zones of recompletion for each well string. These wells were given new computer codes depending upon which aquifer zone waters are monitored. Computer code WC represents the Uinta Zone, while WD represents Upper Parachute Creek Zone 1 (UPC₁), and WE represents Upper Parachute Creek Zone 2 (UPC₂). The UPC and UPC₂ zones replaced wells which were previously classified in the Upper Aquifer zone.

Computer code WG represents the Lower Parachute Creek Zone 3 (LPC₃) and WH represents Lower Parachute Creek Zone 4 (LPC₄), these zones replaced wells classified in the Lower Aquifer Zone. These two digit alpha codes are followed by a two digit numeric code depicting each well as in previous reports.

During this reporting period well levels were affected by two principal items:

1) the Production, Service and V/E shafts were dewatered (the V/E shaft was later allowed to flood as of September) and 2) a reinjection test was conducted from March 2 thru June 20, 1981; associated reinjection pumping rates are shown in Figure 2.2.1-6.

Section 2.2.3 (Supplemental Water Data) contain water levels, flows and time series plots of monitoring stations which are not classified in the following sections. Refer to Section 4.0 (Data Automation) for an updated list of all monitoring stations for C-b Tract.

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TABLE 2.2-1

Water Reporting Interval Requirements for Indicator Variables by Monitoring Station Groups*

Indicator Variables	Symbol	Major USGS	Minor USGS	C-b Springs	Non-Affiliated Springs & Wells	Alluvial Wells	Upper Aquifer	Lower Aquifer	NPDES	Shafts	Reinjection Wells	Pond Seepage Wells
Alkalinity As Adj. Total	CaCO ₃ NA	M	Q	Q		Q	SA	SA	SA*	R	R	R
Ammonia	NH ₃	M	Q	Q		Q	SA	SA	W*	R	R	R
Antimony	Sb	M	Q	Q		Q	SA	SA		R	R	R
Arsenic	As	M	Q	Q		Q	SA	SA	SA(2)		R	R
Bacteria	Bact	Q	Q	Q		Q	SA	SA	SA(2)		R	R
Barium	Ba	Q	Q	Q		Q	SA	SA	SA*		R	R
Beryllium	Be	Q	Q	Q		Q	SA	SA	SA*		R	R
Bicarbonate	HCO ₃	M	Q	Q		SA	SA	SA	SA*		R	R
Biological Oxygen Demand	BOD	Q	Q	Q		SA	SA	SA	SA(2)		R	R
Bismuth	Bi	Q	Q	Q		Q	SA	SA	SA*		R	R
Boron	B	Q	Q	Q		Q	SA	SA	SA*		R	R
Bromine	Br	Q	Q	Q		Q	SA	SA	SA*		R	R
Cadmium	Cd	Q	Q	Q		Q	SA	SA	SA*		R	R
Calcium	Ca	M	Q	Q		Q	SA	SA	M* SA*		R	R
Carbonate	CO ₃	M	Q	Q		Q	SA	SA	SA*		R	R
Chemical Oxygen Demand	COD	Q	Q	Q		Q	SA	SA	D* SA*		R	R
Chloride	Cl	M	Q	Q		Q	SA	SA	D* SA*		R	R
Chromium	Cr	Q	Q	Q		Q	SA	SA	SA(2)		R	R
Cobalt	Co	Q	Q	Q		SA	SA	SA			R	R
Coliform, Fecal		Q	Q	SA		SA			SA*			
Coliform Total		Q	Q	SA								
Color (Not Precise)												
Cond. Hydrocarbon	CH	Q	Q	M		M	SA					
Conductivity, Specifics	Pc	Q	Q	Q		Q	SA	SA	M* SA(2)		R	R
Copper	Cu	Q	Q	Q		Q	SA	SA	SA*			
Cyanide	Cn	Q	Q	M		M						
Dissolved Oxygen	Do	Q	Q	Q								
Element Scan		Q	Q	Q								
Fecal Streptococcus		Q	Q	SA	M (Springs)			SA	Q(4)		R	R
Flow		Q	Q	Q		Q	SA	SA	W* SA*		R	R
Fluoride	F	Q	Q	Q					SA(1)			
Gallium	Ga								SA*			
Germanium	Ge											
Hardness (Ca, Mg)	Oh			Q		Q	SA	SA			R	R
Hydroxides	I											
Iodine	I	M	Q	Q		Q	SA	SA	W* SA(1)		R	R
Iron	Fe	M	Q	Q		Q	SA	SA	SA*		R	R
Kjeldahl Nitrogen		Q	Q	Q		Q	SA	SA	SA*		R	R
Lead	Pb	Q	Q	Q		Q	SA	SA	SA*		R	R
Level					M (Wells)	M	SA	SA	SA*		R	R
Lithium	Li	Q	Q	Q		Q	SA	SA	SA*		R	R
Magnesium	Mg	M	Q	Q		Q	SA	SA	SA*		R	R
Manganese	Mn	M	Q	Q		Q	SA	SA	SA*		R	R
Mercury	Hg	Q	Q	Q		Q	SA	SA	M* SA(1)		R	R
Methylene Blue Active Substance	MBAS	SA	Q	Q		A	SA	SA	SA*		R	R
Methylene Blue Active Substance	MBAS	SA	Q	Q		A	SA	SA	SA*		R	R
Molybdenum	Mo	Q	Q	Q		Q	SA	SA	SA*		R	R
Nickel	Ni	Q	Q	Q		Q	SA	SA	SA*		R	R
Nitrate	NO ₃	M	Q	Q		Q	SA	SA	SA*		R	R
Nitrite	NO ₂	M	Q	Q		Q	SA	SA	SA*		R	R
Odor		Q	Q	Q		Q	SA	SA	SA*		R	R
Oil & Grease	OLGR	Q	Q	Q		Q	SA	SA	D(2) W* SA*		R	R
Organic Carbon, Dissolved	DOC	Q	Q	Q		Q	SA	SA	SA*		R	R
Organic Carbon, Total	TOC	M	Q	Q								
Ortho-Phosphorus	PO ₄	Q	Q	Q								
Pesticides		SA	Q	Q		M	SA	SA	D*		R	R
pH	pH	M	Q	Q		Q	SA	SA	W* SA*		R	R
Phenols	PhA	Q	Q	Q		Q	SA	SA	SA*		R	R
Potassium	K	M	Q	Q		Q	SA	SA	SA*		R	R
Rubidium	Rb	Q	Q	Q		Q	SA	SA	SA*		R	R
Sediment Chac.			A(9)									
Selenium	Se	Q	Q	Q		Q	SA	SA	SA*		R	R
Scandium	Sc	Q	Q	Q		Q	SA	SA	SA*		R	R
Silica	SiO ₂	M	Q	Q		Q	SA	SA	SA*		R	R
Silver	Ag	Q	Q	Q		Q	SA	SA	SA*		R	R
Sodium	Na	M	Q	Q		Q	SA	SA	SA*		R	R
Solids, Dissolved	TDS	M	Q	Q		Q	SA	SA	SA*		R	R
Solids Suspended	SOLS	Q	Q	Q		Q	SA	SA	SA*		R	R
Strontium	Sr	Q	Q	Q		Q	SA	SA	SA*		R	R
Surfactants		Q	Q	Q		Q	SA	SA	SA*		R	R
Sulfate	SO ₄	M	Q	Q		Q	SA	SA	SA*		R	R
Sulfide	SO ₂	Q	Q	Q		M						
Temperature		Q	Q	Q								
Thiosulfite	S ₂ O ₃											
Tin	Sn											
Titanium	Ti								SA(1)			
Tungsten	W											
Turbidity		Q(10)										
Vanadium	V	Q	Q	Q		Q	SA	SA	SA*		R	R
Yttrium	Y	Q	Q	Q		Q	SA	SA	SA*		R	R
Zinc	Zn	Q	Q	Q		Q	SA	SA	SA*		R	R
Zirconium	Zr	Q	Q	Q		Q	SA	SA	SA*		R	R
Radioactivity												
Gross Alpha (pci)	Re 226	Q	Q	SA		SA	SA	SA	SA*			
Radium 226	U	Q	Q	SA		SA	SA	SA	SA*			
Natural Uranium		Q	Q	SA		SA	SA	SA	SA*			
Gross Beta	Ca 137	Q	Q	SA		SA	SA	SA	SA*			
Cesium		Q	Q	SA		SA	SA	SA	SA*			
Sr 90		Q	Q	SA		SA	SA	SA	SA*			
Thorium 230	Th 230	Q	Q	SA		SA	SA	SA	SA*			
Uranium	U	Q	Q	SA		SA	SA	SA	SA*			
Fractionation												
Organic Carbon into												
a. Hydrophobic Bases		SA				SA			SA*			
b. Hydrophobic Acids		SA				SA			SA*			
c. Hydrophilic Neutrals		SA				SA			SA*			
d. Hydrophilic Bases		SA				SA			SA*			
e. Hydrophilic Acids		SA				SA			SA*			
f. Hydrophilic Neutrals		SA				SA			SA*			

REPORTING INTERVAL CODES

D = Daily
W = Weekly
M = Monthly
Q = Quarterly
SA = Semi-Annually
A = Annually
R = Random

NOTES:

- * See Table 3.3-2 for station identification.
- † Applies to all NPDES discharge points.
- 1 Total Values
- 2 Visual analysis of presence of oil and grease only
- 3 Required if gross alpha or gross beta increases by 20% above average.
- 4 Daily flow also at USGS station MU61.
- 5 Applies to both C-b affiliated and non-affiliated stations.
- 6 Applies to stations and species to be identified
- 7 Applies to DMP and MAP stations.
- 8 Applies to two stations to be selected by AOS50
- 9 Applies to station MU42 only.
- 10 Applies to stations MU07 and MU01 only.

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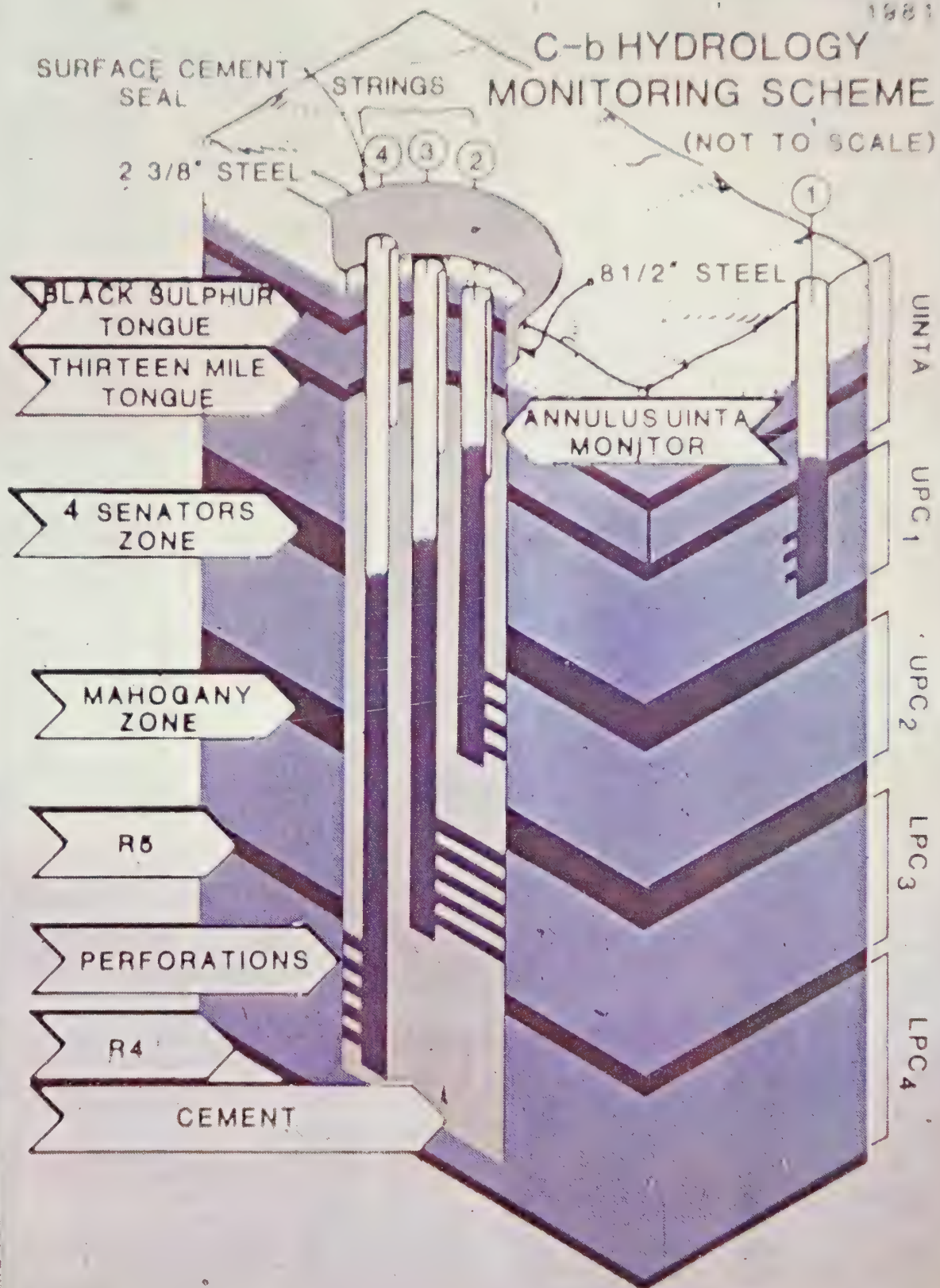


Figure 2.2-1

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EXHIBIT A
FOR
Cb TRACT

NOTES
(Base map supplied by the United States Geological Survey.)
This map is for explanation of monitoring station data.
Frequency of measurements, and address making
measurements.

- LEGEND
- | Description |
|------------------------------------|
| Traffic counter stations |
| Precipitation station |
| Other roads and trails |
| Topographic basin of Picance Creek |

OBSERVATION WELLS

Designation	Owner of Well	Data Measured		Water Quality	Measurements By
		Piezometric Levels			
		Upper Aquifer	Lower Aquifer		
Cb-1	Cb	c	e	p	A
Cb-2	Cb	c	e	p	A
Cb-3	Cb	c	e	p	A
Cb-4	Cb	c	e	p	A
SG-1	Cb	c	e	p	A
SG-1A	Cb	c	e	p	A
SG-6	Cb	c	e	p	A
SG-8	Cb	c	e	p	A
SG-8R	Cb	c	e	p	A
SG-9	Cb	c	e	p	A
SG-10	Cb	c	e	p	A
SG-10A	Cb	c	e	p	A
SG-11R	Cb	c	e	p	A
SG-12	Cb	c	e	p	A
SG-17	Cb	c	e	p	A
SG-18A	Cb	c	e	p	A
SG-19	Cb	c	e	p	A
SG-20	TOSCO	c	e	p	A
SG-21	Cb	c	e	p	A
AT-1C	Cb	c	e	p	A
A-1	+	c	e	p	A
A-2	+	c	e	p	A
A-3	Cb	c	e	p	A
A-4	Cb	c	e	p	A
A-5	Cb	c	e	p	A
A-6	+	c	e	p	A
A-7	Cb	c	e	p	A
A-8	+	c	e	p	A
A-9	Cb	c	e	p	A
A-10	Cb	c	e	p	A
A-11	Cb	c	e	p	A
A-12	Cb	c	e	p	A
A-13	Cb	c	e	p	A
TH75-5A & 5B	U S	m (5A)	m (5B)		
TH75-13A & 13B	U S	m (13A)	m (13B)		
Equity 1	Equity Oil Co	m	m		
TH75-18A & 18B	U S	m (18A)	m (18B)		
TH75-10B	U S	m	m		
TH75-9A & 9B	U S	m	m		
Equity Sulfur 1A	Equity Oil Co	m	m		
CER RB-D-02B03	U S	m (2)	m		
TH75-15A & 15B	U S	m (15A)	m (15B)		
Greene 4-4	Greene Co	m	m		
TG71-3	TG71	m	m		
TG71-5	TG71	m	m		
Oldland 3	TG71	m	m		
GP-17X-BG	U S	m	m		
Bute 25	TOSCO	m*	m*		A/F
Liberty Bell 12	TOSCO	m*	m*		A/F
Union 8-1	Union Oil Co	m	m		A
Getty 9-4D	Getty Oil Co	m	m		A/F
Colony 12 596	Atlantic Richfield	c	c		A/Colony
TG71-4	TOSCO	m	m		A/F
Equity BS-13	Equity Oil Co	m	m		A/F

An asterisk (*) following frequency symbols in columns under "Piezometric Levels" indicates that the composite piezometric level is monitored.
 Frequency of measurement of water levels in alluvial wells indicated under "Upper Aquifer"
 + Regardless of ownership, Applicant has the right to monitor these wells

PRECIPITATION

Designation	Name of Station	Measurements	
		Frequency	By
O20	Cb Air quality trailer O20	c	A
O23	Cb Air quality trailer O23	c	A
LH	Little Hills	c	F
M	Meeker 2	c	F
SG	Standard Gulch on Roan Plateau	c	F
CG	Corral Gulch	c	F
JQS	JQS Gage	c	F
EFPC	East Fork Parachute Creek	c	F
EMFPC	East Middle Fork Parachute Creek	c	F

STREAM FLOW
(Prefix 0930 omitted from Station No.)

Station No.	Description	Data Measured		Measurements By
		Discharge	Quality	
4800	White River below Meeker	c	p	F
6007	Piceance Creek below Rio Blanco	c	p	F
6015	Middle Fork Stewart Gulch	c	p	F
6022	Stewart Gulch above West Fork	c	p	F
6025	West Fork Stewart Gulch, upstream	c	p	F
6028	West Fork Stewart Gulch at mouth	c	p	F
6033	Sorghum Gulch, upstream	c	p	F
6036	Sorghum Gulch at mouth	c	p	F
6039	Cottonwood Gulch	c	p	F
6042	Tributary of Piceance Cr (No Name Gulch)	c	p	F
6045	Piceance Creek below Gardenhire Gulch	c	p	F
6050	Standard Gulch, upstream	c	p	F
6052	Standard Gulch at mouth	c	p	F
6058	Willow Creek	c	p	F
6061	Piceance Creek above Hunter Creek	c	p	F
6200	Piceance Creek below Ryan Gulch	c	p	F
6222	Piceance Creek at White River	c	p	F
6255	Yellow Creek near White River	c	p	F

SPRINGS OR SEEPS

Designation	Data Measured		Measurements By
	Discharge	Quality	
Cb-1	w	p	S/A
Cb-2	w	p	A
Cb-3	w	p	S/A
Cb-4	w	p	A
Cb-5	w	p	S/A
Cb-6	w	p	A
Cb-7	w	p	A
Cb-8	w	p	A
Cb-9	w	p	A
Cb-10	w	p	S/A
ER-1	w	p	S
S-1	w	p	S
H-1	w	p	S
F-1	w	p	S
F-2	w	p	S
F-3	w	p	S
F-4	w	p	S
F-5	w	p	S
ER-7	w	p	S
C-3	w	p	S
P3B1A	w	p	S

GENERAL NOTES

- See Exhibit A for location of monitoring stations listed on this Exhibit.
- 2 Letter symbols under columns of "Data Measured" indicate normal frequency of measurements as follows:
- c - continuous recorder (or daily total or mean)
 - w - weekly
 - m - monthly
 - q - quarterly
 - s - semiannually
 - a - annually
 - p - periodic or variable depending on water quality parameters measured
- 3 Letter symbols under column of "Measurements By" have following meanings:
- A - Applicants in Case No. W-3492
 - F - Federal (USGS)
 - S - State of Colorado (Div. of Water Resources)
 - O - Others (indicated where known)

EXHIBIT B

LIST OF STATIONS
OF HYDROLOGIC MONITORING PROGRAM
FOR
Cb TRACT

2.2.1 Levels and Flows

This section presents hydrologic flows of surface streams, springs and seeps, and water levels in alluvial and bedrock wells and impoundments. Data for monitoring stations required by DMP, WAP, and NPDES documents are identified within each subsection.

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SURFACE
STREAMS

2.2.1.1 Surface Streams

This section contains daily mean discharge data for eight major surface water gauging stations and nine minor surface water gauging stations. These monitoring stations are shown on Figure 2.2.1.1-1. Data presented cover 1981 water year, October 1980 through September 1981. The following table lists stations and the pages which summarize the data.

TABLE 2.2.1.1-1

Surface Water Gauging Stations Discharge Data

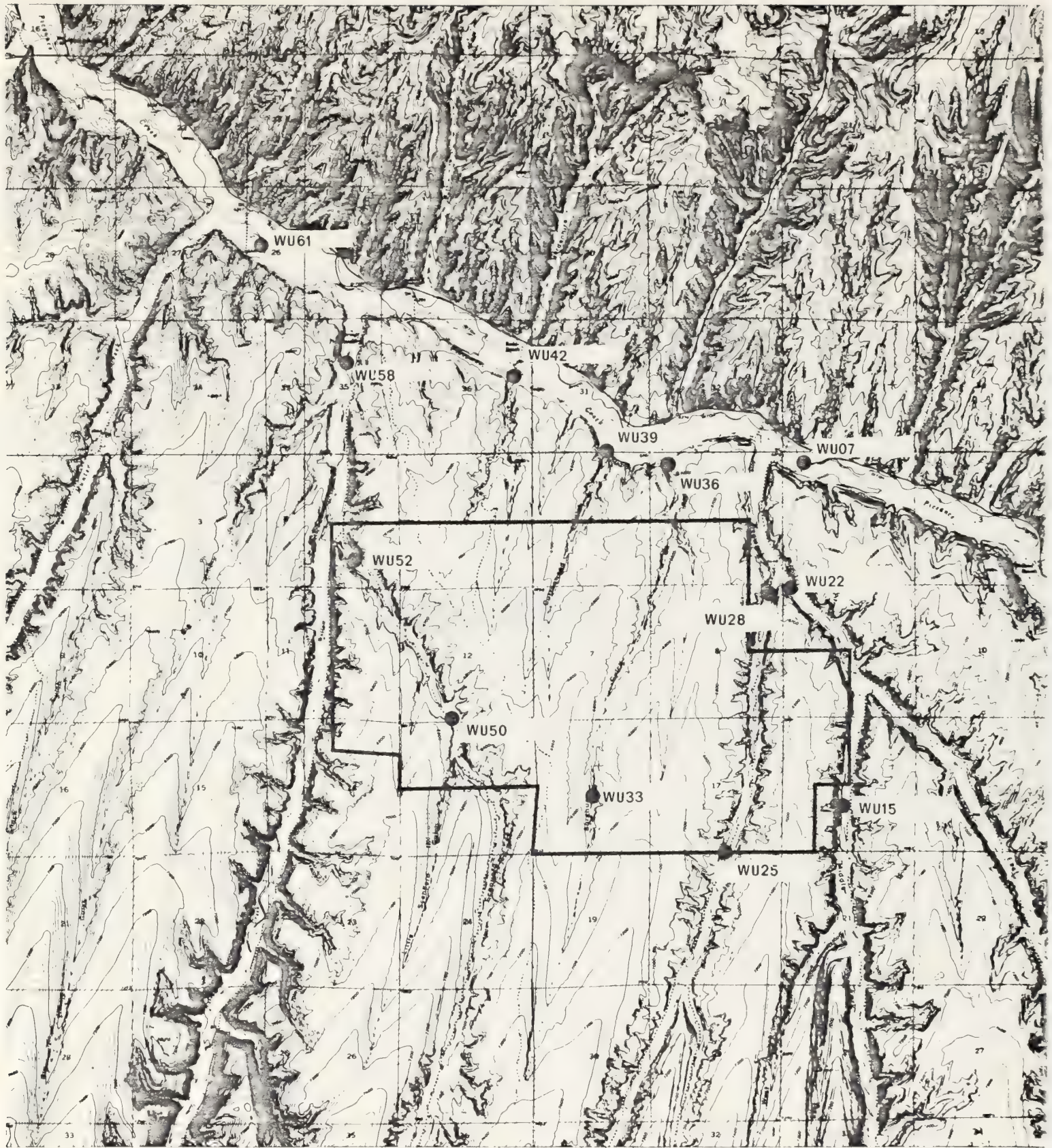
<u>STATION</u>	<u>CODE</u>	<u>PAGE #</u>
09306007*	WU07	I-29
09306015	WU15	I-31
09306022*	WU22	I-33
09306025	WU25	I-35
09306028	WU28	I-37
09306033	WU33	I-39
09306036	WU36	I-41
09306039	WU39	I-43
09306042	WU42	I-45
09306045	WU45	I-47
09306050	WU50	I-49
09306052	WU52	I-51
09306058*	WU58	I-53
09306061*	WU61	I-55

Following monitoring stations are major gauging stations and data are not available for daily discharge.

09304800
09306200
09306222
09306255

* Major Gauging Stations

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U.S.G.S. STREAM GAUGING STATION MONITORING NETWORK

Figure 2.2.1.1-1

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DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
PICEANCE CREEK BELOW RIO BLANCO 9306007 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	7.80	11.00	11.00	9.90	8.80	6.40	9.80	9.10	2.80	5.70	3.60	4.00
2	7.90	11.00	11.00	9.90	8.80	5.50	10.00	9.10	2.70	5.70	3.30	4.00
3	8.00	11.00	11.00	9.90	8.80	5.30	15.00	11.00	1.90	5.40	3.20	4.10
4	8.00	11.00	10.00	9.60	8.80	4.90	12.00	9.80	1.90	6.30	3.20	3.80
5	8.10	12.00	10.00	10.00	8.80	4.70	10.00	10.00	2.20	5.70	3.30	4.40
6	8.50	12.00	11.00	9.80	8.80	6.90	10.00	8.90	3.80	5.50	3.10	5.10
7	5.70	12.00	11.00	9.60	8.80	7.70	18.00	4.50	3.40	4.90	3.30	4.90
8	4.60	7.60	10.00	9.50	8.80	7.70	15.00	3.90	2.80	4.90	3.40	3.90
9	2.70	8.10	9.70	9.20	8.80	7.40	9.80	7.90	1.40	6.00	3.40	2.70
10	2.50	9.60	8.60	9.40	8.80	8.80	8.60	10.00	1.20	7.50	4.60	2.30
11	5.00	10.00	9.30	9.40	8.80	9.00	8.60	10.00	4.50	7.50	5.40	2.40
12	8.70	15.00	11.00	9.30	8.80	8.30	6.00	9.20	5.70	7.80	6.00	2.20
13	6.70	19.00	11.00	9.20	8.80	8.00	4.20	9.00	6.40	5.50	5.30	2.40
14	7.60	16.00	11.00	9.20	8.80	7.70	2.40	9.10	6.10	5.80	4.90	2.20
15	11.00	15.00	11.00	9.10	9.10	7.70	1.30	9.40	5.60	5.00	4.70	1.70
16	9.70	14.00	10.00	9.40	8.90	7.40	1.50	9.60	4.90	5.00	3.80	2.20
17	9.50	13.00	10.00	9.20	8.90	9.30	1.30	9.80	3.70	5.00	3.70	2.30
18	9.10	13.00	10.00	9.40	9.00	8.30	0.88	7.70	4.50	5.00	4.60	2.60
19	9.20	12.00	10.00	9.80	9.20	7.70	0.77	5.30	4.00	5.00	5.10	2.60
20	9.20	12.00	10.00	9.50	9.40	7.80	0.77	3.20	3.60	4.20	5.10	2.40
21	9.00	12.00	9.90	9.50	9.50	8.30	0.78	0.98	4.00	4.50	5.10	2.60
22	11.00	12.00	10.00	9.20	9.30	8.10	0.67	0.86	4.30	4.50	5.30	2.70
23	7.70	12.00	9.80	9.50	8.50	8.10	0.68	1.90	6.10	4.50	5.10	2.70
24	8.10	12.00	10.00	8.90	7.40	8.50	0.57	1.90	7.60	4.80	5.50	2.60
25	10.00	12.00	10.00	9.60	9.30	8.10	0.47	2.50	7.30	5.10	4.90	2.60
26	9.30	12.00	10.00	9.50	8.40	8.20	0.95	2.30	6.60	4.80	4.00	2.90
27	12.00	12.00	10.00	9.30	7.10	13.00	2.90	1.90	7.00	4.60	4.80	4.10
28	13.00	11.00	10.00	9.20	7.50	11.00	9.20	2.30	6.30	4.60	4.20	3.60
29	12.00	11.00	10.00	9.00		9.50	9.20	2.40	6.20	4.30	4.80	3.00
30	12.00	11.00	10.00	8.90		11.00	9.20	2.30	4.60	3.70	5.60	3.70
31	12.00		9.90	8.90		10.00		2.90	4.60	3.60	3.90	
TOTAL	265.60	361.30	316.20	291.80	244.70	250.30	180.54	188.74	133.10	161.90	136.20	92.70

WATER YEAR TOTAL: 2623.07 MEAN: 7.19

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

PICEANCE CREEK BELOW RIO BLANCO 9306007 WY 1981 MEAN DAILY DISCHARGE

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	3.20	6.30	7.10									
2	3.20	5.80	7.10									
3	4.20	5.70										
4	4.20	5.40										
5	5.10	4.90										
6	4.80	5.60										
7	4.70	7.00										
8	4.70	7.30										
9	4.20	7.00										
10	4.80	6.50										
11	4.90	8.50										
12	5.10	9.00										
13	5.40	9.00										
14	5.70	9.10										
15	6.20	9.10										
16	6.80	8.70										
17	5.50	8.60										
18	5.60	9.00										
19	5.20	8.90										
20	5.10	9.00										
21	5.20	8.70										
22	5.40	8.70										
23	5.80	8.60										
24	5.80	8.40										
25	4.90	8.40										
26	5.00	7.80										
27	4.70	7.60										
28	4.60	7.60										
29	5.20	7.40										
30	6.00	7.40										
31	6.30	231.00										
TOTAL	158.40	231.00	14.20									

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

MIDDLE FORK STEWART GULCH NR RIO BLANCO 9306015 WY 1980 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

MIDDLE FORK STEWART GULCH NR RIO BLANCO 9306015 WY 1980 MEAN DAILY DISCHARGE

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	0.00	0.00	0.00									
2	0.00	0.00	0.00									
3	0.00	0.00	0.00									
4	0.00	0.00	0.00									
5	0.00	0.00	0.00									
6	0.00	0.00	0.00									
7	0.00	0.00	0.00									
8	0.00	0.00	0.00									
9	0.00	0.00	0.00									
10	0.00	0.00	0.00									
11	0.00	0.00	0.00									
12	0.00	0.00	0.00									
13	0.00	0.00	0.00									
14	0.00	0.00	0.00									
15	0.00	0.00	0.00									
16	0.00	0.00	0.00									
17	0.00	0.00	0.00									
18	0.00	0.00	0.00									
19	0.00	0.00	0.00									
20	0.00	0.00	0.00									
21	0.00	0.00	0.00									
22	0.00	0.00	0.00									
23	0.00	0.00	0.00									
24	0.00	0.00	0.00									
25	0.00	0.00	0.00									
26	0.00	0.00	0.00									
27	0.00	0.00	0.00									
28	0.00	0.00	0.00									
29	0.00	0.00	0.00									
30	0.00	0.00	0.00									
31	0.00	0.00	0.00									
TOTAL	0.00	0.00	0.00									

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

STEWART GULCH ABOVE WEST FORK NR RIO BLANCO 9306022 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	2.40	1.70	1.90	2.40	2.30	1.60	1.20	1.90	1.60	1.60	1.40	1.30
2	2.60	1.70	1.90	2.50	2.10	1.60	1.20	2.00	1.50	1.70	1.40	1.20
3	2.60	1.90	2.10	2.50	2.00	1.30	1.20	2.20	1.60	1.60	1.40	1.30
4	2.50	1.80	2.00	2.30	2.00	0.71	1.20	2.00	1.60	1.70	1.30	1.30
5	2.60	1.90	2.10	2.40	2.00	0.67	1.20	2.00	1.60	1.50	1.30	1.30
6	2.30	2.00	2.00	2.10	1.90	0.42	1.30	2.10	1.60	1.50	1.30	1.30
7	2.20	2.00	2.00	2.50	1.80	0.41	1.60	2.00	1.60	1.50	1.30	1.30
8	2.10	1.80	2.30	2.40	1.80	0.41	1.90	2.00	1.50	1.50	1.30	1.20
9	2.00	1.80	2.30	2.30	1.80	0.46	1.90	2.10	1.50	1.50	1.30	1.20
10	2.00	2.00	2.10	2.30	1.70	0.45	1.90	1.90	1.50	1.50	1.40	1.20
11	2.10	2.00	1.90	2.20	1.60	0.40	2.00	1.90	1.50	1.40	1.40	1.20
12	2.20	1.90	1.90	2.20	1.60	0.40	2.10	1.80	1.40	1.50	1.40	1.10
13	2.20	2.00	1.80	2.10	1.60	0.42	2.10	1.80	1.50	1.70	1.40	1.10
14	2.30	2.00	1.90	2.10	1.50	0.42	2.10	1.70	1.40	1.60	1.40	1.10
15	2.30	2.00	1.80	2.10	1.50	0.45	2.10	1.60	1.40	1.50	1.40	1.10
16	2.40	2.00	1.80	2.10	1.60	0.48	2.10	1.70	1.40	1.50	1.30	1.00
17	2.40	1.90	2.50	2.10	1.50	0.53	2.10	1.70	1.40	1.50	1.30	1.00
18	2.40	1.90	2.50	2.10	1.60	0.52	2.10	1.60	1.40	1.50	1.30	1.00
19	2.20	2.00	2.30	2.00	1.70	0.51	2.10	1.50	1.40	1.50	1.30	1.00
20	2.20	2.00	2.40	2.10	1.60	0.47	2.20	1.50	1.30	1.40	1.30	1.00
21	2.20	1.90	2.50	1.50	1.60	0.48	2.20	1.50	1.30	1.30	1.20	1.10
22	2.20	2.10	2.50	1.50	1.70	0.50	2.20	1.50	1.30	1.30	1.20	1.10
23	2.10	2.10	2.60	2.00	1.70	0.49	2.20	1.50	1.30	1.40	1.20	1.00
24	2.10	2.10	2.70	2.30	1.80	0.51	2.10	1.50	1.50	1.50	1.30	1.10
25	2.00	1.90	2.80	2.30	1.60	0.52	2.10	1.50	1.50	1.50	1.30	0.97
26	2.10	2.10	2.70	1.80	1.60	0.72	2.10	1.50	1.50	1.50	1.30	0.95
27	2.10	1.90	2.80	1.50	1.70	0.80	2.10	1.30	1.40	1.40	1.30	0.95
28	2.00	2.10	2.70	1.70	1.60	0.90	2.10	1.40	1.40	1.40	1.30	0.92
29	1.90	1.90	2.50	1.80		0.90	2.10	1.40	1.60	1.40	1.30	0.96
30	1.80	1.90	2.40	2.00		1.00	2.00	1.50	1.50	1.40	1.30	1.00
31	1.70		2.50	2.30		1.10		1.50		1.40	1.30	
TOTAL	68.20	58.30	70.40	65.50	48.50	20.56	56.80	53.10	44.00	46.20	40.90	33.26

WATER YEAR TOTAL: 605.73

MEAN: 1.66

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

STEWART GULCH ABOVE WEST FORK NR RIO BLANCO 9306022 WY 1981 MEAN DAILY DISCHARGE

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	1.00	0.96	1.20									
2	1.00	0.97	1.20									
3	1.00	0.99										
4	1.00	1.00										
5	1.00	1.00										
6	0.99	1.00										
7	0.98	1.10										
8	1.00	1.10										
9	1.00	1.10										
10	1.00	1.10										
11	1.00	1.10										
12	1.00	1.00										
13	1.00	1.00										
14	1.00	1.00										
15	1.00	1.00										
16	0.97	1.00										
17	0.96	1.00										
18	0.94	1.10										
19	0.93	1.10										
20	0.95	1.10										
21	0.95	1.10										
22	0.94	1.10										
23	0.94	1.10										
24	0.93	1.10										
25	0.95	1.10										
26	0.95	1.10										
27	0.95	1.20										
28	0.96	1.20										
29	1.00	1.20										
30	0.99	1.20										
31	0.98											
TOTAL	30.26	32.14										

DISCHARGE, IN CFS, WATER YEAR 1981 MEAN VALUES, FOR

WEST FORK STEWART GULCH NR RIO BLANCO 9306025 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01

ATER YEAR TOTAL: 0.03 MEAN: 0.00

DISCHARGE, IN CFS, WATER YEAR 1981 MEAN VALUES, FOR
WEST FORK STEWART GULCH NR RIO BLANCO 9306025 WY 1981 MEAN DAILY DISCHARGE

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	0.00	0.00	0.00									
2	0.00	0.00	0.00									
3	0.00	0.00	0.00									
4	0.00	0.00	0.00									
5	0.00	0.00	0.00									
6	0.00	0.00	0.00									
7	0.00	0.00	0.00									
8	0.00	0.00	0.00									
9	0.00	0.00	0.00									
10	0.00	0.00	0.00									
11	0.00	0.00	0.00									
12	0.00	0.00	0.00									
13	0.00	0.00	0.00									
14	0.00	0.00	0.00									
15	0.00	0.00	0.00									
16	0.00	0.00	0.00									
17	0.00	0.00	0.00									
18	0.00	0.00	0.00									
19	0.00	0.00	0.00									
20	0.00	0.00	0.00									
21	0.00	0.00	0.00									
22	0.00	0.00	0.00									
23	0.00	0.00	0.00									
24	0.00	0.00	0.00									
25	0.00	0.00	0.00									
26	0.00	0.00	0.00									
27	0.00	0.00	0.00									
28	0.00	0.00	0.00									
29	0.00	0.00	0.00									
30	0.00	0.00	0.00									
31	0.00	0.00	0.00									
TOTAL	0.00	0.00	0.00									

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

WEST FORK STEWART GULCH AT MOUTH NR RIO BLANCO 9306028 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.09

WATER YEAR TOTAL: 0.13 MEAN: 0.00

WEST FORK STEWART GULCH AT MOUTH NR RIO BLANCO 9306028 WY 1981 MEAN DAILY DISCHARGE

[illegible]

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

SORGHUM GULCH NR RIO BLANCO 9306033 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.01

WATER YEAR TOTAL: 0.05 MEAN: 0.00

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
SORGHUM GULCH NR RIO BLANCO 9306033 WY 1981 MEAN DAILY DISCHARGE

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	0.00	0.00	0.00									
2	0.00	0.00	0.00									
3	0.00	0.00	0.00									
4	0.00	0.00	0.00									
5	0.00	0.00	0.00									
6	0.00	0.00	0.00									
7	0.00	0.00	0.00									
8	0.00	0.00	0.00									
9	0.00	0.00	0.00									
10	0.00	0.00	0.00									
11	0.00	0.00	0.00									
12	0.00	0.00	0.00									
13	0.00	0.00	0.00									
14	0.00	0.00	0.00									
15	0.00	0.00	0.00									
16	0.00	0.00	0.00									
17	0.00	0.00	0.00									
18	0.00	0.00	0.00									
19	0.00	0.00	0.00									
20	0.00	0.00	0.00									
21	0.00	0.00	0.00									
22	0.00	0.00	0.00									
23	0.00	0.00	0.00									
24	0.00	0.00	0.00									
25	0.00	0.00	0.00									
26	0.00	0.00	0.00									
27	0.00	0.00	0.00									
28	0.00	0.00	0.00									
29	0.00	0.00	0.00									
30	0.00	0.00	0.00									
31	0.00	0.00	0.00									
TOTAL	0.00	0.00	0.00									

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
SORGHUM GULCH AT MOUTH NR RIO BLANCO 9306036 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

WATER YEAR TOTAL: 0.23 MEAN: 0.00

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[illegible]

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
COTTONWOOD GULCH NR RANGELY 9306039 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WATER YEAR TOTAL MEAN

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
COTTONWOOD GULCH NR RANGELY 9306039 WY 1981 MEAN DAILY DISCHARGE

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	0.00	0.00	0.00									
2	0.00	0.00	0.00									
3	0.00	0.00	0.00									
4	0.00	0.00	0.00									
5	0.00	0.00	0.00									
6	0.00	0.00	0.00									
7	0.00	0.00	0.00									
8	0.00	0.00	0.00									
9	0.00	0.00	0.00									
10	0.00	0.00	0.00									
11	0.00	0.00	0.00									
12	0.00	0.00	0.00									
13	0.00	0.00	0.00									
14	0.00	0.00	0.00									
15	0.02	0.00	0.00									
16	0.00	0.00	0.00									
17	0.00	0.00	0.00									
18	0.00	0.00	0.00									
19	0.00	0.00	0.00									
20	0.00	0.00	0.00									
21	0.00	0.00	0.00									
22	0.00	0.00	0.00									
23	0.00	0.00	0.00									
24	0.00	0.00	0.00									
25	0.00	0.00	0.00									
26	0.00	0.00	0.00									
27	0.00	0.00	0.00									
28	0.00	0.00	0.00									
29	0.00	0.00	0.00									
30	0.00	0.00	0.00									
31	0.00	0.00	0.00									
TOTAL	0.02	0.00										

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
 PICEANCE CREEK TRIB. NR RIO BLANCO 9306042 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	1.70	2.40	2.60	2.20	2.30	2.00	1.40	1.80	1.20	1.90	1.10	0.50
2	1.70	2.40	2.50	2.20	2.30	1.80	1.50	2.40	1.20	1.50	1.50	0.50
3	1.70	2.40	2.30	2.10	2.40	2.10	1.50	2.00	1.40	0.60	0.91	0.00
4	1.70	2.40	2.10	2.10	2.30	1.50	1.50	2.00	1.30	1.70	1.10	0.00
5	1.80	2.40	2.30	2.20	2.00	1.50	1.60	2.00	1.20	1.90	1.30	0.00
6	1.90	2.40	2.40	2.50	1.60	1.70	1.80	2.00	1.60	1.40	1.60	0.72
7	2.10	2.40	2.20	2.80	1.20	1.40	1.60	2.00	1.80	1.10	1.40	0.59
8	1.30	2.40	2.70	2.60	1.90	1.50	1.50	2.40	1.80	0.84	1.90	0.46
9	1.50	2.40	2.50	2.30	2.20	1.50	1.40	2.10	1.40	0.77	1.00	0.45
10	1.70	2.20	2.60	2.40	2.00	1.40	1.40	2.10	0.35	1.00	1.30	0.28
11	1.90	2.20	2.00	2.50	1.90	1.60	1.40	2.30	0.02	1.20	2.00	0.71
12	2.00	2.00	2.00	2.60	2.20	1.50	1.40	2.40	0.13	1.90	1.30	0.76
13	1.70	3.40	2.10	2.60	2.20	1.60	1.20	2.40	0.21	2.10	1.10	0.47
14	2.10	2.90	2.10	2.60	2.30	1.60	1.40	2.20	0.16	1.40	1.10	0.75
15	1.20	2.80	2.10	2.60	2.40	1.60	1.30	2.20	0.23	1.30	1.90	1.00
16	0.78	2.70	2.10	2.60	2.50	1.50	1.30	2.20	0.83	1.20	3.10	0.63
17	0.44	2.60	2.40	2.60	2.50	1.80	1.20	2.10	1.20	1.00	1.70	0.60
18	0.22	2.60	2.20	2.70	1.50	1.60	1.30	2.10	0.86	1.50	1.30	0.29
19	0.15	2.60	2.60	2.70	1.50	1.50	1.40	1.90	1.00	1.50	1.50	0.04
20	0.14	2.90	2.80	2.70	1.90	1.50	1.50	1.90	1.20	0.85	1.50	0.00
21	1.20	2.90	2.60	2.70	2.50	1.40	1.50	2.00	0.21	1.30	1.50	0.00
22	1.30	2.80	2.70	2.70	1.40	1.50	1.80	1.60	0.14	1.40	1.50	0.05
23	2.20	3.00	2.50	2.80	2.40	1.30	1.80	2.00	0.86	1.00	1.50	0.05
24	1.80	2.80	3.10	2.60	2.30	1.30	1.70	2.10	1.30	0.84	1.00	0.00
25	1.90	2.80	3.10	2.50	1.50	1.50	2.10	1.60	1.50	2.00	1.00	0.07
26	2.20	2.80	3.20	2.50	1.60	1.40	2.10	1.80	0.72	1.60	1.00	0.10
27	2.80	2.80	3.30	2.50	1.80	1.60	2.10	1.50	1.00	0.83	1.00	0.13
28	2.40	2.70	3.20	2.60	1.90	1.60	2.10	1.80	3.10	0.86	1.00	0.02
29	2.40	2.60	2.80	2.70		1.70	2.10	1.50	2.90	1.50	0.50	0.08
30	2.40	2.50	2.20	2.50		1.60	1.70	1.40	3.20	0.98	0.50	0.03
31	2.40		2.40	2.30		1.70	1.70	1.30		0.92	0.50	
TOTAL	50.73	78.20	77.70	78.00	57.50	48.80	47.60	61.10	34.03	39.88	44.61	9.26

WATER YEAR TOTAL: 623.49

MEAN: 1.71

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
PICEANCE CREEK TRIB. NR RIO BLANCO 9306042 WY 1981 MEAN DAILY DISCHARGE

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	0.00	0.00										
2	0.00	0.00										
3	0.77	0.00										
4	0.95	0.00										
5	0.90	0.00										
6	0.00	0.00										
7	0.00	0.00										
8	0.75	0.00										
9	0.43	0.00										
10	0.00	0.00										
11	0.57	0.00										
12	0.15	0.00										
13	0.50	0.00										
14	0.00	0.00										
15	0.65	0.00										
16	0.63	0.00										
17	0.00	0.00										
18	0.00	0.00										
19	0.00	0.00										
20	0.00	0.00										
21	0.00	0.00										
22	0.00	0.00										
23	0.00	0.00										
24	0.00	0.00										
25	0.00	0.00										
26	0.00	0.00										
27	0.00	0.00										
28	0.00	0.00										
29	0.00	0.00										
30	0.00	0.00										
31	0.00	0.00										
TOTAL	6.29	0.00										

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
PICEANCE CREEK BELOW GARDENHIRE GULCH NR RIO BLANCO 9306045 WY 1981

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	8.00	15.00	14.00	15.00	14.00	11.00	15.00	8.00	5.10	7.90	3.60	8.60
2	8.00	15.00	14.00	15.00	14.00	9.90	15.00	8.30	5.90	7.70	3.60	7.90
3	8.50	16.00	14.00	15.00	14.00	9.90	22.00	11.00	5.60	6.60	3.10	7.10
4	8.50	16.00	14.00	15.00	14.00	9.10	18.00	11.00	4.90	8.20	3.50	6.90
5	8.50	18.00	14.00	15.00	13.00	8.60	16.00	9.90	4.60	8.20	4.00	6.60
6	9.00	18.00	14.00	15.00	13.00	11.00	17.00	12.00	5.70	7.20	6.00	8.50
7	6.00	19.00	14.00	15.00	12.00	12.00	27.00	5.80	6.40	6.10	5.30	8.10
8	5.50	19.00	14.00	15.00	13.00	12.00	21.00	5.40	6.20	5.50	5.90	7.10
9	5.50	18.00	14.00	15.00	13.00	11.00	14.00	7.70	4.90	6.00	4.90	5.80
10	6.00	19.00	14.00	15.00	12.00	13.00	11.00	10.00	3.80	8.00	5.60	5.60
11	7.50	20.00	15.00	15.00	12.00	13.00	11.00	10.00	5.80	7.90	7.60	5.60
12	9.00	24.00	15.00	20.00	14.00	12.00	8.30	8.80	6.40	8.20	7.90	5.40
13	9.00	26.00	15.00	20.00	13.00	12.00	6.80	9.30	6.40	7.30	8.10	5.20
14	8.50	24.00	15.00	17.00	12.00	12.00	5.10	8.80	7.00	6.10	8.40	5.40
15	11.00	22.00	15.00	14.00	13.00	12.00	4.20	8.50	7.30	5.50	8.80	5.40
16	9.50	20.00	16.00	14.00	13.00	12.00	2.80	8.90	7.00	5.30	8.70	4.90
17	9.50	20.00	17.00	14.00	13.00	14.00	2.40	11.00	5.40	5.40	7.30	5.40
18	9.50	20.00	17.00	13.00	12.00	13.00	2.50	10.00	5.60	5.70	7.70	5.30
19	10.00	18.00	17.00	14.00	12.00	12.00	2.90	7.10	4.80	5.60	7.70	4.60
20	10.00	17.00	17.00	14.00	15.00	12.00	3.00	5.90	5.40	4.80	9.00	4.60
21	10.00	17.00	18.00	14.00	14.00	13.00	3.80	4.60	5.20	5.00	10.00	4.60
22	11.00	17.00	17.00	14.00	13.00	13.00	4.30	3.70	6.80	5.40	10.00	4.90
23	9.50	16.00	17.00	14.00	13.00	12.00	4.20	4.80	8.00	5.10	10.00	5.30
24	9.50	16.00	17.00	13.00	11.00	13.00	3.80	4.80	9.30	4.90	10.00	4.70
25	11.00	15.00	16.00	13.00	14.00	13.00	4.20	5.30	9.50	6.10	9.70	3.70
26	10.00	15.00	16.00	13.00	13.00	12.00	4.30	4.70	7.80	5.90	6.90	3.80
27	14.00	15.00	16.00	13.00	11.00	19.00	5.20	4.00	7.90	5.00	7.50	4.70
28	15.00	15.00	16.00	13.00	12.00	16.00	8.60	4.40	10.00	4.70	7.20	5.30
29	15.00	15.00	16.00	13.00		15.00	8.50	3.90	9.60	4.80	7.50	4.40
30	15.00	14.00	15.00	14.00		17.00	8.20	3.60	8.00	4.00	9.60	4.90
31	15.00		15.00	14.00		15.00		4.30		3.60	7.90	
TOTAL	302.00	539.00	478.00	453.00	246.00	389.50	280.10	225.50	196.30	187.70	215.10	170.30

WATER YEAR TOTAL: 3806.40

MEAN: 10.43

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
 PICEANCE CREEK BELOW GARDENHIRE GULCH NR RIO BLANCO 9306045 WY 1981

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	4.50	5.90	10.00									
2	4.20	6.10	10.00									
3	5.40	6.20										
4	5.60	6.00										
5	6.60	6.20										
6	6.00	6.30										
7	5.70	7.50										
8	6.20	8.40										
9	5.50	9.00										
10	5.60	8.80										
11	6.10	8.70										
12	6.60	11.00										
13	7.10	12.00										
14	7.00	12.00										
15	8.00	11.00										
16	9.80	11.00										
17	7.40	10.00										
18	7.10	10.00										
19	7.00	11.00										
20	6.40	11.00										
21	6.70	12.00										
22	6.80	12.00										
23	7.00	11.00										
24	6.30	11.00										
25	4.90	11.00										
26	4.70	11.00										
27	4.70	11.00										
28	4.80	11.00										
29	5.10	11.00										
30	6.00	11.00										
31	5.60											
TOTAL	190.40	290.10	20.00									

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

SCANDARD GULCH NR RIO BLANCO 9306050 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00

WATER YEAR TOTAL: 0.24 MEAN: 0.00

SCANDARD GULCH NR RIO BLANCO 9306050 WY 1981 MEAN DAILY DISCHARGE

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DISCHARGE, IN CFS, WATER YEAR 1981 MEAN VALUES, FOR

STANDARD GULCH AT MOUTH NR RIO BLANCO 9306052 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	0.00	0.61	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	1.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.58

WATER YEAR TOTAL: 2.66

MEAN: 0.01

SCANDARD GULCH AT MOUTH NR RIO BLANCO 9306052 WY 1981 MEAN DAILY DISCHARGE

[illegible]

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

WILLOW CREEK NR RIO BLANCO 9306058 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	4.30	4.40	4.20	3.90	3.00	1.70	3.00	0.25	0.70	0.40	0.69	1.40
2	4.30	4.30	4.20	3.90	3.00	1.60	2.90	0.27	0.58	0.38	0.76	1.40
3	4.30	4.30	4.20	4.00	3.00	1.90	3.00	0.48	0.39	0.38	0.78	1.40
4	4.20	4.30	4.20	4.10	3.00	2.10	2.90	0.46	0.48	0.31	0.76	1.40
5	4.20	4.70	4.10	4.10	2.90	1.90	3.20	0.72	0.48	0.26	2.00	1.40
6	4.20	5.00	4.10	3.80	2.90	1.80	3.10	1.80	0.42	0.24	4.60	1.50
7	4.30	4.80	4.40	2.50	2.90	2.20	3.20	1.60	0.39	0.21	2.00	1.50
8	4.30	4.70	4.40	2.50	2.80	1.90	3.00	1.60	0.50	0.19	1.80	1.50
9	4.30	5.10	4.50	2.50	2.60	2.00	2.90	1.80	0.79	0.28	1.70	1.50
10	4.30	5.00	4.40	2.50	2.50	2.20	2.80	1.80	0.80	0.26	1.80	1.50
11	4.30	4.90	4.40	2.50	2.60	2.00	3.00	3.20	0.70	0.54	1.80	1.50
12	4.30	4.90	4.40	2.50	2.90	2.10	3.20	3.00	0.69	0.42	1.80	1.40
13	4.40	4.90	4.00	2.50	2.60	2.10	3.20	1.50	0.74	0.42	1.90	1.40
14	4.50	4.90	4.00	2.50	2.60	1.90	3.00	0.34	1.00	0.41	1.80	1.40
15	4.60	4.80	4.00	2.50	2.80	2.00	2.80	0.25	0.93	0.40	1.80	1.40
16	4.50	4.60	4.00	2.70	3.00	2.10	3.20	0.25	0.71	0.42	1.80	1.40
17	4.40	4.40	4.20	2.70	2.90	2.00	1.30	0.25	0.49	0.48	1.70	1.40
18	4.30	4.20	4.40	2.50	2.20	1.90	0.27	0.22	0.68	0.47	1.60	1.40
19	4.30	4.20	4.40	2.50	2.00	1.90	0.35	0.20	0.59	0.47	1.60	1.40
20	4.30	4.20	4.40	2.50	2.20	2.00	0.39	0.21	0.28	0.47	1.60	1.40
21	4.20	4.20	4.30	2.50	2.20	2.20	0.31	0.21	0.30	0.47	1.60	1.40
22	4.20	4.20	4.30	2.50	2.10	2.10	0.25	0.19	0.41	0.48	1.70	1.20
23	4.20	4.20	4.30	2.50	2.10	2.20	0.22	0.18	0.37	0.50	1.60	1.10
24	4.20	4.20	4.20	3.00	2.00	2.50	0.27	0.18	0.34	0.56	1.70	1.20
25	4.10	4.20	4.30	3.10	1.90	2.70	0.62	0.25	0.34	0.58	1.60	1.20
26	4.10	4.20	4.20	2.50	2.00	2.60	0.29	0.21	0.33	0.58	1.50	1.20
27	4.30	4.20	4.20	3.00	2.00	2.70	0.21	0.20	0.34	0.59	1.50	1.30
28	4.40	4.20	4.20	3.10	2.10	2.80	0.28	0.23	0.36	0.59	1.50	1.20
29	4.50	4.20	4.10	3.50		2.70	0.25	0.26	0.35	0.63	1.50	1.20
30	4.60	4.20	3.90	3.20		3.10	0.23	0.25	0.36	0.67	1.60	1.20
31	4.50		3.90	3.10		3.30		0.29		0.69	1.50	
TOTAL	133.90	134.60	130.80	91.20	70.80	68.20	53.63	22.64	15.85	13.75	51.69	40.80

WATER YEAR TOTAL:

MEAN:

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR
WILLOW CREEK NR RIO BLANCO 9306058 WY 1981 MEAN DAILY DISCHARGE

	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JULY</u>	<u>AUG</u>	<u>SEPT</u>
1	1.20	1.40	1.50									
2	1.20	1.40	1.60									
3	1.40	1.40	1.60									
4	1.40	1.40										
5	1.60	1.40										
6	1.30	1.40										
7	1.20	1.40										
8	1.40	1.40										
9	1.40	1.40										
10	1.30	1.40										
11	1.30	1.40										
12	1.40	1.40										
13	1.40	1.50										
14	1.40	1.40										
15	1.50	1.50										
16	1.60	1.40										
17	1.30	1.40										
18	1.40	1.50										
19	1.30	1.50										
20	1.30	1.50										
21	1.40	1.50										
22	1.30	1.50										
23	1.30	1.50										
24	1.40	1.50										
25	1.40	1.50										
26	1.30	1.30										
27	1.30	1.60										
28	1.30	1.70										
29	1.50	1.60										
30	1.40	1.50										
31	1.40											
TOTAL	42.30	43.70	4.70									

DISCHARGE, IN CFS, WATER YEAR 1981, MEAN VALUES, FOR

PICEANCE CREEK ABOVE HUNTER CREEK NR RIO BLANCO 9306061 WY 1981 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT
1	7.90	21.00	23.00	21.00	17.00	14.00	19.00	8.70	3.40	10.00	3.80	3.30
2	7.00	22.00	23.00	21.00	17.00	12.00	19.00	9.60	3.40	9.60	4.30	3.70
3	5.90	21.00	24.00	20.00	18.00	13.00	22.00	14.00	2.30	8.70	4.30	3.00
4	5.90	21.00	24.00	20.00	18.00	12.00	20.00	12.00	1.80	10.00	5.50	3.00
5	5.70	21.00	25.00	21.00	18.00	11.00	19.00	6.70	1.30	11.00	8.70	3.50
6	6.70	22.00	24.00	20.00	18.00	13.00	19.00	9.10	1.40	10.00	18.00	3.90
7	6.50	23.00	24.00	20.00	18.00	15.00	25.00	5.10	2.40	7.30	11.00	3.20
8	6.10	23.00	23.00	20.00	18.00	15.00	25.00	5.10	2.80	6.10	11.00	3.50
9	6.20	21.00	23.00	20.00	18.00	15.00	21.00	7.10	2.70	5.70	9.20	3.10
10	6.40	24.00	23.00	19.00	18.00	16.00	19.00	11.00	1.60	8.40	10.00	2.70
11	8.20	27.00	22.00	20.00	18.00	16.00	21.00	12.00	3.50	7.90	13.00	2.60
12	9.00	32.00	22.00	20.00	18.00	15.00	19.00	12.00	3.40	8.10	10.00	2.60
13	11.00	34.00	22.00	20.00	18.00	16.00	19.00	11.00	4.40	7.90	8.50	2.90
14	10.00	32.00	21.00	20.00	17.00	16.00	17.00	8.20	6.20	6.60	10.00	3.30
15	11.00	30.00	21.00	20.00	18.00	16.00	18.00	8.70	7.80	5.20	12.00	3.40
16	9.40	28.00	20.00	20.00	18.00	16.00	16.00	8.70	6.70	5.40	13.00	4.30
17	10.00	28.00	21.00	20.00	18.00	17.00	14.00	10.00	3.90	5.90	11.00	4.20
18	10.00	27.00	21.00	21.00	17.00	17.00	8.00	9.60	7.90	6.80	12.00	3.80
19	11.00	26.00	20.00	21.00	17.00	16.00	6.00	6.70	5.70	6.30	12.00	2.80
20	11.00	26.00	21.00	21.00	19.00	16.00	4.00	5.70	4.50	5.50	13.00	3.10
21	11.00	26.00	21.00	20.00	19.00	16.00	1.60	4.30	5.60	5.40	14.00	3.90
22	11.00	25.00	21.00	21.00	18.00	16.00	1.40	2.50	5.90	5.60	11.00	3.80
23	10.00	26.00	21.00	20.00	18.00	16.00	1.30	3.50	7.90	4.90	5.80	3.40
24	10.00	25.00	22.00	18.00	16.00	18.00	0.88	3.70	10.00	5.30	5.30	3.40
25	11.00	25.00	22.00	18.00	17.00	16.00	0.79	4.00	10.00	6.10	5.10	3.30
26	10.00	25.00	21.00	18.00	16.00	17.00	0.52	4.00	8.80	6.00	4.60	3.10
27	15.00	25.00	21.00	18.00	15.00	21.00	1.50	3.50	8.80	5.00	4.90	3.40
28	21.00	24.00	21.00	17.00	15.00	21.00	9.50	3.40	12.00	4.60	4.60	3.70
29	21.00	24.00	21.00	17.00	15.00	19.00	9.10	3.10	12.00	4.20	4.30	3.60
30	21.00	23.00	21.00	17.00	17.00	21.00	8.40	2.60	10.00	4.30	5.70	3.60
31	21.00	21.00	21.00	17.00	17.00	21.00	21.00	3.00		3.80	4.20	
TOTAL	326.90	757.00	680.00	610.00	490.00	499.00	384.99	218.60	168.10	207.60	69.8	101.10

WATER YEAR TOTAL: 4709.08

MEAN: 12.90

PICEANCE CREEK ABOVE HUNTER CREEK NR RIO BLANCO 9306061 WY 1981 MEAN DAILY DISCHARGE

[illegible]

2.2.1.2 Springs and Seeps

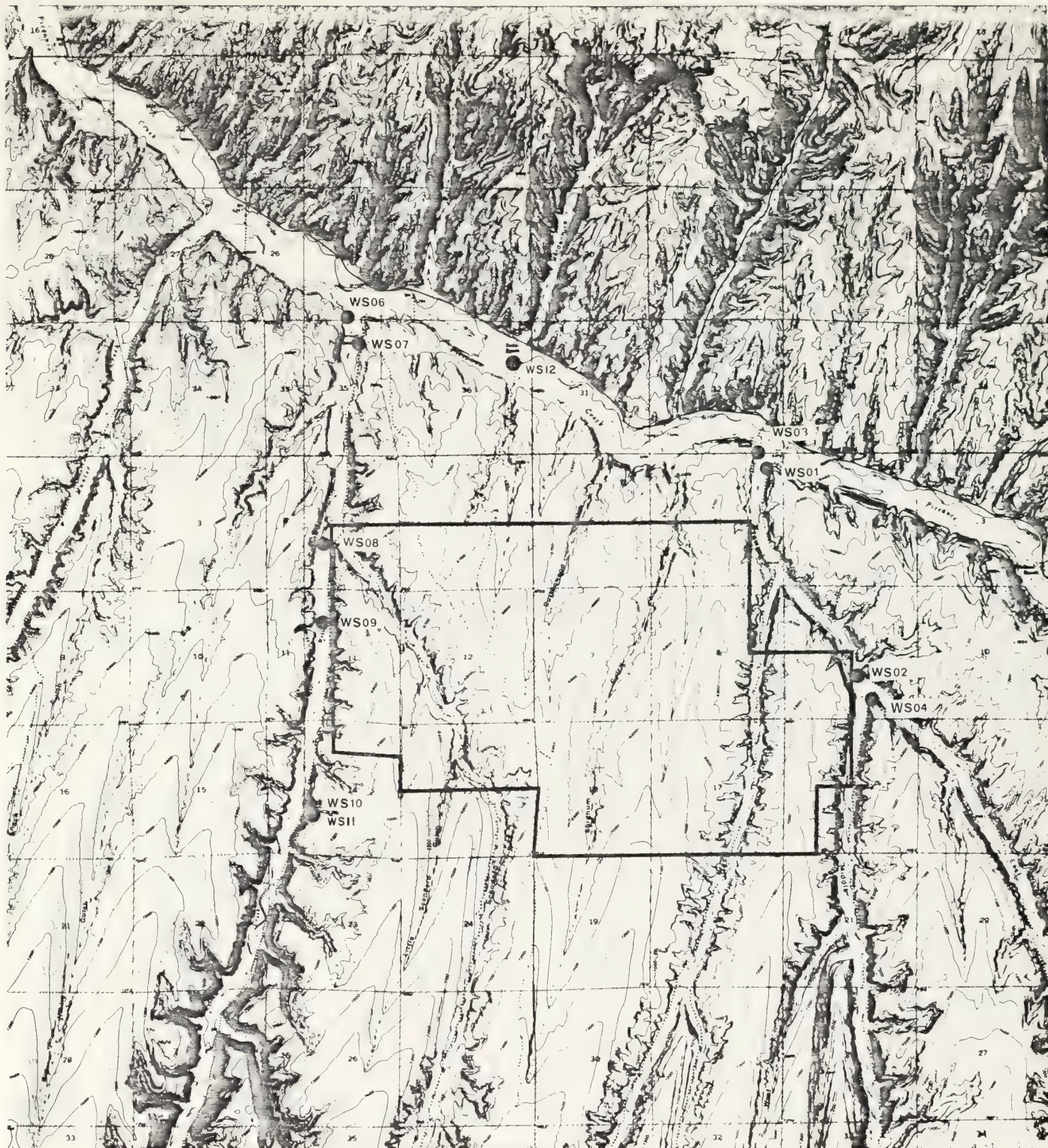
This section contains flow and field measurement data for springs and seeps monitored under the Development Monitoring Plan (DMP) and the Water Augmentation Plan (WAP).

Ten springs and one seep monitored in the vicinity of Tract C-b are shown on Figure 2.2.1.2-1. Data consisting of flow, temperature, pH dissolved oxygen, and specific conductance for these monitoring stations are presented in Table 2.2.1.2-1.

Sixteen additional springs monitored around the outer boundaries of Tract C-b are shown on Figure 2.2-1 (jacket map). Flow data for these stations are presented in Table 2.2.1.2-2. Sampling of these springs were discontinued in October by the State of Colorado. An attempt is being made to contract with USGS to take over the sampling.

Monitoring stations in this section are referenced by a four digit computer station code. For additional information on these codes refer to Section 4.0 (Data Automation).

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SPRINGS AND SEEPS AROUND
Cb TRACT

Figure 2.2.1.2-1

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Table 2.2.1.2-1

CB-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS01	81	5	6	DIVERT	1.78	7.5	7.7	3.8	1110.0
			13	DIVERT	1.94	11.2	8.1	5.2	1200.0
			27	DIVERT	1.26				
			4	DIVERT	1.16				
			11	DIVERT	1.16				
			17	DIVERT	1.16				
			24	DIVERT	1.90				
			30	DIVERT	1.94				
			9	DIVERT	1.20	8.9	7.9	8.7	1030.0
			16	DIVERT	1.86				
			23	DIVERT	1.55				
			12	DIVERT					
			21	DIVERT					
			26	DIVERT					
			3	DIVERT					
			10	DIVERT					
			14						
			24						
			30						
			6						
			15						
			22						
			30						
			4						
			13						
			19						
WS02	81	5	6		.06	11.3	8.1	4.7	1210.0
			13		.07				
			29		.04				
			4		.04	14.0	8.6	6.8	1120.0
			11		.05				
			17		.03				
			24		.03				
			30		.04				
			9		.03				
			16		.03				

DRY = SPRING DRY
 NOFLME = NO FLUME
 - = LESS THAN
 DIVERT = FLOW DIVERTED FOR IRRIGATION

Table 2.2.1.2-1 (cont)

CB-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS02	81	7	23		.03				
		8	12		.03				
			21		.03				
		9	26		.03				
			3		.03				
			10		.03				
			14		.03	10.1	7.5	7.5	1135.0
			24		.03				
		10	30		.03				
			6		.03				
			19		.03				
			22		.03				
			30		.03				
		11	4		.03	10.7	8.2	7.6	1000.0
			11		.03				
			19		.03				
WS03	81	5	6	DIVERT					
			13	DIVERT					
			29	DIVERT					
		6	4	DIVERT					
			11	DIVERT					
			17	DIVERT					
			24	DIVERT					
		7	30	DIVERT					
			9	DIVERT					
			16	DIVERT					
		8	23	DIVERT					
			12	DIVERT					
			21	DIVERT					
		9	26	DIVERT					
			3	DIVERT					
			10	DIVERT					
			14	DIVERT				.8	50.0
			24	DIVERT	8.00				
			29	INACSS					

DRY = SPRING DRY
 NOFLME = NO FLUME
 DIVERT = FLOW DIVERTED FOR IRRIGATION

Table 2.2.1.2-1 (cont)
CH-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS03	81	10	6	INACSS	.43	11.9	8.0	5.0	1260.0
			13	INACSS	.41				
			29	INACSS	.45				
		6	4	INACSS	.39	15.0	8.4	6.5	1170.0
			11	INACSS	.37				
			17	INACSS	.32				
			24	INACSS	.31				
		7	30	INACSS	.31				
			9	INACSS	.28				
			16	INACSS	.30				
		8	23	INACSS	.31	11.4	8.2	5.7	1220.0
			7	INACSS	.29				
			12	INACSS	.28				
			21	INACSS	.31				
		9	26	INACSS	.34				
			3	INACSS	.34				
			10	INACSS	.41	8.1	7.8	7.4	1110.0
			14	INACSS	.34				
		10	24	INACSS	.26				
			30	INACSS	.43				
			6	INACSS	.26				
			19	INACSS	.26				
			22	INACSS	.37				
		11	30	INACSS	.31	10.2	8.1	7.7	1000.0
			4	INACSS	.45				
			11	INACSS	.28				
			19	INACSS	.28				
WS04	81	5	6	INACSS	.46	11.1	7.7	5.6	1418.0
			12	INACSS	.46				

DRY = SPRING DRY
 NOFLME = NO FLUME
 - = LESS THAN
 DIVERT = FLOW DIVERTED FOR IRRIGATION

Table 2.2.1.2-1 (cont)

CB-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS06	81	5	27		.46	12.7	7.7	6.4	1490.0
		6	11		.48				
			17		.46				
			30		.55				
		7	16		.64				
			23		.64				
			26		.43				
			29		.43				
		8	10		.43	11.9	7.9	6.7	1050.0
			14		.06				
		9	10		.51				
			24		.40				
			29		.46				
		10	15		.46				
			22		.43				
			30		.43				
		11	5		.43	9.8	7.9	5.7	1200.0
			13		.43				
			19		.40				
WS07	81	5	6	DIVERT	.32	9.2	7.7	6.2	1310.0
		6	11		.25	10.3	7.6	6.4	1380.0
			17		.26				
			24		.27				
		7	30		.27				
			9		.24				
			16		.24				
		8	23		2.30				
			13		.25				
			20		.25				
		9	26		.25				
			2		.25				
			10		.25				

DRY = SPRING DRY
 NOFLME = NO FLUME
 DIVERT = FLOW DIVERTED FOR IRRIGATION

Table 2.2.1.2-1 (cont)

CB-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS07	81	9	14		.23	10.2	7.6	6.6	1100.0
		10	29		.25				
			6		.25				
		11	15		.23				
			22		.23				
			30		.21				
		11	5		.23	9.5	8.0	6.0	1260.0
			13		.23				
			19		.23				
WS08	81	5	6		.05	9.4	7.8	5.7	1225.0
			12		.05				
		6	27		.05				
			4		.09	9.9	7.6	5.6	1250.0
			11		.15				
			17		.07				
			24		.06				
		8	30		.07	9.8	7.5	5.9	1360.0
			7		.05				
			13		.05				
		9	26	DRY	.05				
			2		.05				
			10						
		10	24	DRY					
			29	DRY					
			6	DRY					
			15	DRY					
			22	DRY					
		11	30	DRY					
			5	DRY					
			13	DRY					
			19	DRY					
WS09	81	5	6		.20	8.8	7.6	6.5	1170.0
			12		.17				
			27		.19				

DRY = SPRING DRY
 NOFLME = NO FLUME
 - = LESS THAN
 DIVERT = FLOW DIVERTED FOR IRRIGATION

Table 2.2.1.2-1 (cont)

CB-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS09	81	6	4	---	.20	9.2	7.5	6.1	1220.0
			11	---	.17				
			17	---	.18				
			24	---	.18				
	7		30	---	.19				
			9	---	.16				
			16	---	.17				
	8		23	---	.20	8.7	8.0	5.1	1350.0
			7	---	.19				
			13	---	.19				
			20	---	.19				
	9		26	---	.19				
			2	---	.19				
			10	---	.19	9.9	8.4	5.6	940.0
			14	---	.20				
	10		24	---	.20				
			29	---	.19				
			6	---	.19				
			15	---	.19				
			22	---	.19				
	11		30	---	.19	8.9	7.9	6.4	1080.0
			5	---	.20				
			13	---	.19				
			19	---	.20				
WS10	81	5	6	---	.52	7.5	7.6	3.8	1110.0
			12	---	.41				
	6		27	---	.41				
			4	---	.41	9.0	7.7	7.1	1190.0
			11	---	.89				
			17	---	.41				
			24	---	.41				
	7		30	---	.41				
			9	---	.39				
			16	---	.39				
	8		23	---	.43	9.7	8.3	8.4	1320.0
			7	---	.37				
			13	---	.37				

DRY = SPRING DRY
 NOFLME = NO FLUME
 - = LESS THAN
 DIVERT = FLOW DIVERTED FOR IRRIGATION

Table 2.2.1.2-1 (cont)

CB-TRACT MEASUREMENTS
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS10	81	8	20		.39				
			26		.37				
			2		.37				
	9		10		.39	10.2	7.6	6.9	860.0
			14		.39				
			29		.45				
			6		.41				
			15		.41				
			22		.43				
			30		.45				
	11		5		.47	8.7	8.5	6.7	1070.0
			13		.43				
			19		.47				
WS11	81	5	6		.47	8.1	7.6	8.2	1090.0
			12		.45				
			27		.46				
	6		4		.44	8.6	7.6	5.1	1160.0
			11		.20				
			17		.43				
			24		.42				
			30		.42				
	7		9		.39				
			16		.41				
			23		.42				
	8		13		.38	8.6	8.3	4.4	1180.0
			20		.38				
			26		.39				
10	9		10		.40				
			14		.39	7.3	7.7	4.2	840.0
			24		.46				
	10		6		.40				
			15		.43				
			22		.44				

DRY = SPRING DRY
 NOFLME = NO FLUME
 - = LESS THAN
 DIVERT = FLOW DIVERTED FOR IRRIGATION

Table 2.2.1.2-1 (cont)

CB-TRACT
WATER FLOW AND FIELD MEASUREMENTS
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS11	81	10	30		.45				
		11	13		.45	8.4	7.7	7.7	1040.0
			19		.46				
WS12	81	5	6		.26	13.6	7.9	7.0	1450.0
			12		.20				
			27		.23				
	6		4	NOFLME	.00	12.2	7.9	7.7	1557.0
			11		.31				
			17		.31				
			24		.31				
	7		30		.31				
			9		.31				
			16		.26				
	8		23		.26				
			6		.31	12.1	7.7	7.8	1140.0
			12		.31				
			21		.31				
	9		26		.34				
			2		.34				
			10		.34				
			14		.36	12.6	8.5	7.6	1170.0
			23		.37				
	10		22		.37				
			15		.43				
			22		.43				
			30		.37				
	11		4		.41	10.0	7.9	8.3	1220.0
			13		.41				
			19		.41				

DRY = SPRING DRY

NOFLME = NO FLUME

DIVERT = LESS THAN

FLOW DIVERTED FOR IRRIGATION

Table 2.2.1.2-2

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS21	81	5	6		.39
		12			.57
		19			.38
		27			.56
		2			.38
	6	10			.55
		16			.39
		23			.52
	7	30			.39
		7			.38
		14			.38
	8	23			.32
		5			.32
		11			.34
	9	25			.31
		9			.31
		15			.31
		22			.31
WS22	81	6			.51
		2			.49
		10			.49
		16			.46
		23			.45
	7	30			.45
		7			.44
		14			.44
		23			.40
	8	30			.38
		5			.37
	9	11			.35
		25			.36
		9			.37
		15			.37
		22			.37
WS23	81	5	7		1.63

DRY = SPRING DRY
NOFLME = NO FLUME
- = LESS THAN

Table 2.2.1.2-2 (cont)

CH-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS23	81	5	13		1.53
		6	27		1.04
		6	12		1.28
		7	17		1.18
		7	24		1.18
		7	8		1.13
		7	17		1.23
		8	25		1.23
		8	19		1.18
		9	31		1.18
		9	9		1.18
		9	18		1.18
		9	24		1.18
WS24	81	5	6		.99
		5	12		.99
		5	19		1.07
		6	27		1.07
		6	2		1.10
		6	10		1.12
		6	16		1.07
		6	23		1.07
		7	30		1.04
		7	7		1.04
		7	14		1.04
		7	23		1.02
		8	30		.97
		8	5		.94
		8	11		.97
		9	26		.92
		9	9		.80
		9	15		.80
		9	22		.80
WS25	81	5	8		.56
		5	14		.48
		5	21		.34

DRY = SPRING DRY
NOFLME = NO FLUME
- = LESS THAN

Table 2.2.1.2-2 (cont)

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS25	81	6	1		.23
			9		.19
			16		.10
			23		.08
			30		.04
	7		7		.07
			14		.06
			23		.04
			30		.03
	8		5		.02
			11		.02
	9		9	DRY	.00
WS26	81	5	7		.29
			13		.29
			20		.37
	6		28		.32
			3		.32
			11		.36
			17		.45
	7		24		.50
			2		.36
			8		.36
			17		.29
	8		24		.27
			7		.27
			20		.27
	9		26		.26
			10		.15
			16		.15
			24		.15
WS27	81	5	7		.15
			13		.15
			20		.15
			28		.15
	6		3		.15
			11		.15
			17		.15
			24		.15

DRY = SPRING DRY
NOFLME = NO FLUME
= LESS THAN

Table 2.2.1.2-2 (cont)

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS27	81	7	28		.14
			17		.15
		8	24		.14
			7		.14
			20		.14
		9	31		.14
			10		.15
			16		.15
			24		.15
WS28	81	5	7		.26
			13		.26
			20		.26
		6	28		.26
			3		.26
			11		.90
			17		.45
		7	24		.45
			2		.50
		8	8		.62
			20		.80
		9	27		.80
			10		.78
			17		.78
			23		.78
WS29	81	5	7		.05
			13		.05
			20		.05
		6	28		.05
			22		.07
			11		.06
			18		.07
		7	24		.06
			22		.06
			8		.06
			17		.06
			24		.06
		8	7		.06

DRY = SPRING DRY
NOFLME = NO FLUME
LESS THAN

Table 2.2.1.2-2 (cont)

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS29	81	8	20		.06
		9	27		.06
		10	17		.06
		17	23		.06
WS30	81	5	7		4.12
		13	13		4.00
		20	27		3.00
		27	3		3.00
		6	10		3.95
		17	17		3.37
		23	23		3.37
		7	28		3.12
		8	17		3.12
		17	23		3.00
		20	7		3.18
		28	20		3.00
		10	10		3.00
		16	16		3.00
		24	24		3.00
WS31	81	5	7		1.82
		13	13		1.82
		20	20		1.70
		28	28		1.64
		6	3		1.70
		11	11		1.58
		17	17		1.52
		24	24		1.52
		7	28		1.52
		8	17		1.46
		17	24		1.41
		27	7		1.19
		20	20		1.24
		27	27		1.24

DRY = SPRING DRY
NOFLME = NO FLUME
_ = LESS THAN

Table 2.2.1.2-2 (cont)

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS31	81	9	10		1.24
			17		1.24
			23		1.24
WS32	81	5	7		20
			13		19
			20		19
			28		19
	6		3		18
			11		18
			17		18
			24		18
	7		2		18
			8		19
			17		19
			24		19
	8		7		18
			20		18
			31		19
	9		10		19
			16		19
			24		19
WS33	81	5	7		66
			13		66
			20		82
			28		82
	6		2		71
			11		71
			17		66
			24		66
	7		2		66
			8		66
			17		71
			24		77
	8		7		66
			20		71
			27		71
	9		10		71
			17		71

DRY = SPRING DRY
NOFLME = NO FLUME
- = LESS THAN

Table 2.2.1.2-2 (cont)

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS33	81	9	23		.71
WS34	81	5	7		.45
			13		.45
			20		.45
		6	28		.44
			3		.44
			11		.43
			17		.43
		7	24		.39
			2		.39
			8		.40
			17		.39
			24		.39
		8	7		.38
			20		.43
			31		.40
		9	10		.40
			16		.40
			24		.40
WS35	81	5	8		.99
			14		.97
			21		.92
		6	1		.80
			9		.76
			16		.69
			23		.61
			30		.58
		7	7		.54
			14		.48
			23		.42
		8	30		.39
			5		.38
			11		.39
		9	25		.38
			9		.32
WS36	81	5	6		1.88
			13		1.88

DRY = SPRING DRY
NOFLME = NO FLUME
- = LESS THAN

Table 2.2.1.2-2 (cont)

CB-TRACT
WATER FLOW REQUIRED BY WAP
SPRINGS AND SEEPS
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS36	81	5	27		1.94
		6	11		1.64
			17		1.70
			24		1.52
	7		30		1.64
			9		1.70
			16		1.47
			23		1.47
	8		7		1.19
			12		1.19
			21		1.25
			26		1.82
	9		2		1.76
			10		1.76
			14		1.94
			24		1.76
			30		1.30
	10		19		1.25
			22		1.94
			30		1.82
	11		4		1.25
			11		1.30
			19		1.30
WS37	81	7	19		.29
		8	18		.26
		9	16		.06
WS66	81	9	24	DRY	.00
			29	DRY	.00
	10		6	DRY	.00
			15	DRY	.00
			22	DRY	.00
			30	DRY	.00
	11		5	DRY	.00
			13	DRY	.00
			19	DRY	.00

DRY = SPRING DRY
NOFLME = NO FLUME
_ = LESS THAN

2.2.1.3 Alluvial Wells

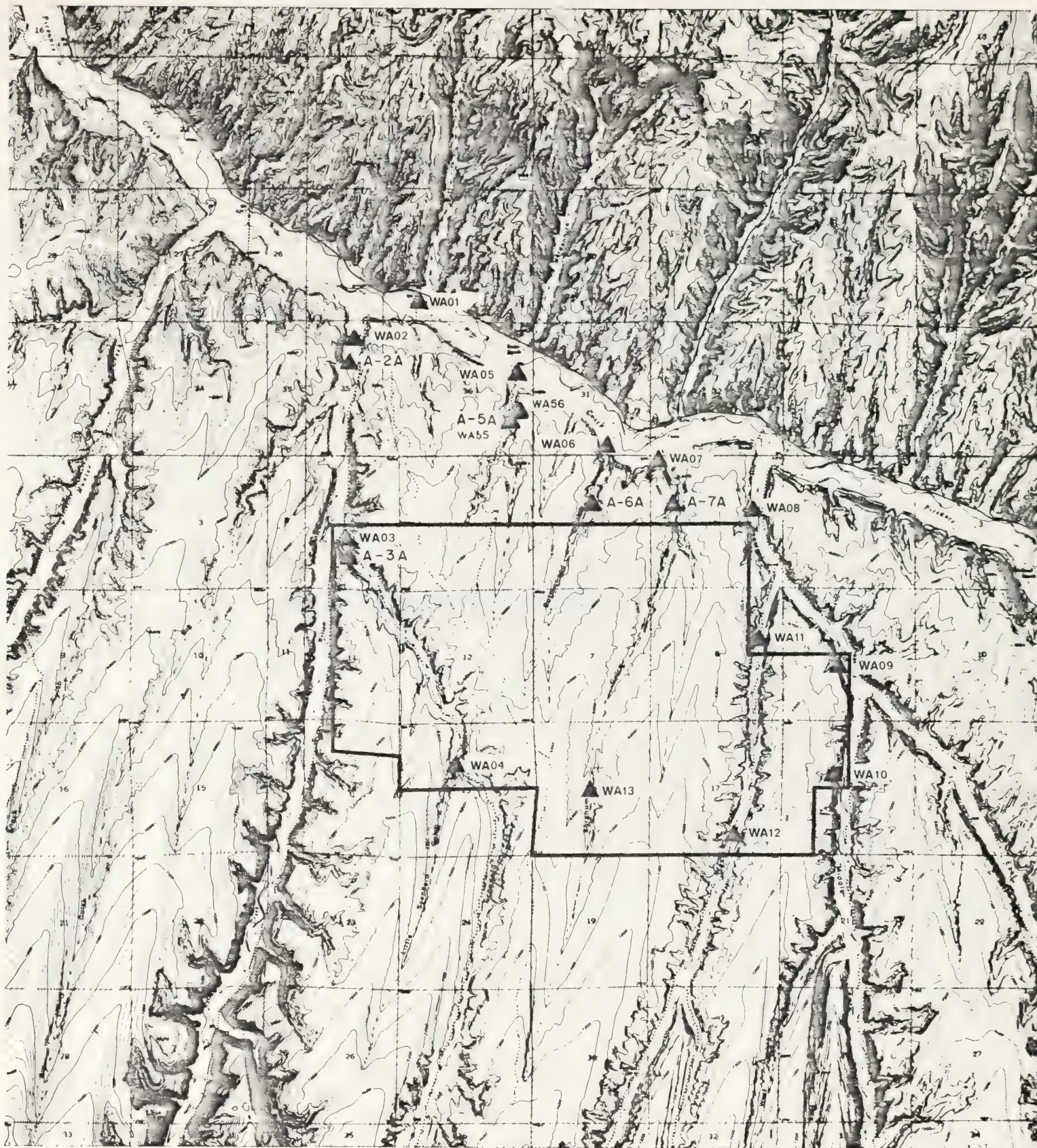
Water level and field measurement data for alluvial wells on Tract C-b are presented in Table 2.2.1.3-1. Location of these wells are shown in Figure 2.2.1.3-1.

Plots of alluvial wells monitoring water levels are presented in this section; for reference see Table 2.2.1.3-2.

Stevens Recorder instrumentation for monitoring continuous water levels are operating at ten alluvial wells. Table 2.2.1.3-3 lists these wells with corresponding computer codes.

An attempt has been made to refer to all stations by their four-digit computer station codes. For additional information on these codes refer to Section 4.0.

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ALLUVIAL AQUIFER MONITORING NETWORK

Figure 2.2.1.3 - I

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Table 2.2.1.3-1
CB-TRACT
WATER LEVELS AND FIELD MEASUREMENTS
ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL	YR	MO	DAY	STATUS	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WA01	81	5	21		6237.9	11.2	7.7	2.6	1950.0
		6	7		6239.0	12.2	7.9	4.5	1490.0
		7	11		6238.4	11.3	7.7	1.0	1530.0
		8	15		6240.1	11.6	7.6	.9	1495.0
		10	12		6242.0	16.0	7.5	2.6	1630.0
		11	11		6241.7	11.1	7.4	7.3	1520.0
WA02	81	5	21		6271.2	6.7	7.5	7.5	1510.0
		6	9		6271.2	7.2	7.9	5.7	1160.0
		7	11		6269.3	7.0	7.6	6.3	1180.0
		8	15		6270.0	6.9	7.5	6.9	1175.0
		10	13		6269.9	14.0	7.2	3.8	1207.0
		11	10		6268.9	8.4	7.7	11.5	1210.0
WA03	81	6	9		6370.3	9.3	7.4	5.2	1470.0
		7	7		6369.3	11.3	7.3	4.8	1280.0
		8	11		6370.5	9.7	7.9	6.5	1150.0
		9	15		6368.3	9.8	7.7	6.4	1140.0
		10	13		6365.1	16.0	7.2	3.6	1200.0
		11	10		6364.0	9.5	7.8	6.5	1180.0
WA04	81	8	11	DRY					
		9	15	DRY					
		10	13	DRY					
WA05	81	6	9		6327.7	9.5	7.4	8.4	1530.0
		7	9		6325.4	10.7	8.2	7.2	1220.0
		8	12		6327.8	9.6	7.6	.9	1170.0
		9	14		6327.0	9.4	7.5	1.0	1168.0
		10	13		6327.5	14.0	7.2	2.3	1340.0
		11	11		6327.4	9.2	7.8	1.3	1310.0
WA06	81	6	9		6331.9	11.8	7.5	6.7	1380.0
		7	8		6325.6	12.9	7.7	3.5	1180.0
		8	12		6330.5	11.2	7.6	1.0	1190.0
		9	14		6326.5	11.0	7.6	1.5	1200.0

PLUGGED = WELL PLUGGED
 DRY = WELL DRY
 FLOWING = WELL FLOWING
 INACCS = WELL INACCESSIBLE

Table 2.2.1.3-1 (cont)

C8-TRACT
WATER LEVELS AND FIELD MEASUREMENTS
ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL	YR	MO	DAY	STATUS	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WA06	81	10	13		6325.7	14.0	7.3	2.8	1300.0
		11	5		6332.6	10.5	7.6	10.6	1300.0
WA07	81	6	9		6354.7	9.2	7.8	7.5	1250.0
		7	8		6351.3	10.6	8.5	6.5	1050.0
		8	12		6351.1	9.5	7.9	6.4	1070.0
		9	15		6350.5	9.4	8.4	4.0	1070.0
		10	19		6350.3		7.4	5.9	1280.0
		11	5		6351.5	9.0	7.9	8.8	1110.0
WA08	81	6	11		6387.7	5.7	7.6	5.3	1350.0
		7	9		6386.6	7.0	8.0	10.5	1020.0
		8	12		6387.9	6.6	8.2	6.6	1120.0
		9	17		6385.6	7.2	8.4	6.4	1135.0
		11	11		6385.1	7.5	7.7	6.5	1150.0
WA09	81	5	21		6493.0				
		6	11		6493.3	9.6	7.6	7.5	1260.0
		7	9		5791.8	11.2	7.9	9.4	1000.0
		8	12		6492.5	9.7	7.8	7.4	1060.0
		9	17		6492.2	10.1	7.9	7.0	1072.0
		10	19		5792.1		7.4	6.5	1200.0
		11	10		6492.0	9.4	7.6	3.7	1080.0
WA10	81	7	9	DRY					
		8	12	DRY					
		9	17	DRY					
		10	19	DRY					
		11	11	DRY					
WA11	81	6	11		6450.3				
		7	9		6450.2				
		8	12		6450.1				
		9	17		6450.1				
		10	19		6503.5				
WA12	81	5	21		6639.4	8.4	7.6	8.0	1410.0
		6	11		6640.0				

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLOWING = WELL FLOWING
 INACCS = WELL INACCESSIBLE

Table 2.2.1.3-1 (cont)

CB-TRACT
WATER LEVELS AND FIELD MEASUREMENTS
ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL	YR	MO	DY	STATUS	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WA12	81	7	9		6637.8	9.5	8.1	9.3	1240.0
		8	12		6638.8	8.5	7.9	6.7	1300.0
		9	17		6638.7	9.1	8.2	6.4	1270.0
		10	20		6638.7		7.3	5.8	1490.0
		11	10		6638.4	8.3	7.8	7.8	1330.0
WA13	81	7	9	DRY					
		8	12	DRY					
		9	17	DRY					
		10	20	DRY					
WA55	81	6	11		6441.2	12.5	7.7	6.7	1660.0
		8	14		6441.5	16.0	7.8	4.3	1470.0
		9	15		6432.7	14.8	8.1	4.6	1530.0
		10	20	DRY					
		11	5	DRY					
WA56	81	6	11		-20.7	10.8	7.8	4.4	1315.0
		7	19		-21.8	7.2	7.9	5.7	1160.0
		8	14		-19.8	14.7	8.6	7.2	1400.0
		9	15		-18.8	14.9	8.8	7.1	1420.0
		10	20		-22.6		7.7	6.6	1680.0
		11	5		-25.8	11.9	8.0	2.8	1600.0

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLOWING = WELL FLOWING
 INACCS = WELL INACCESSIBLE

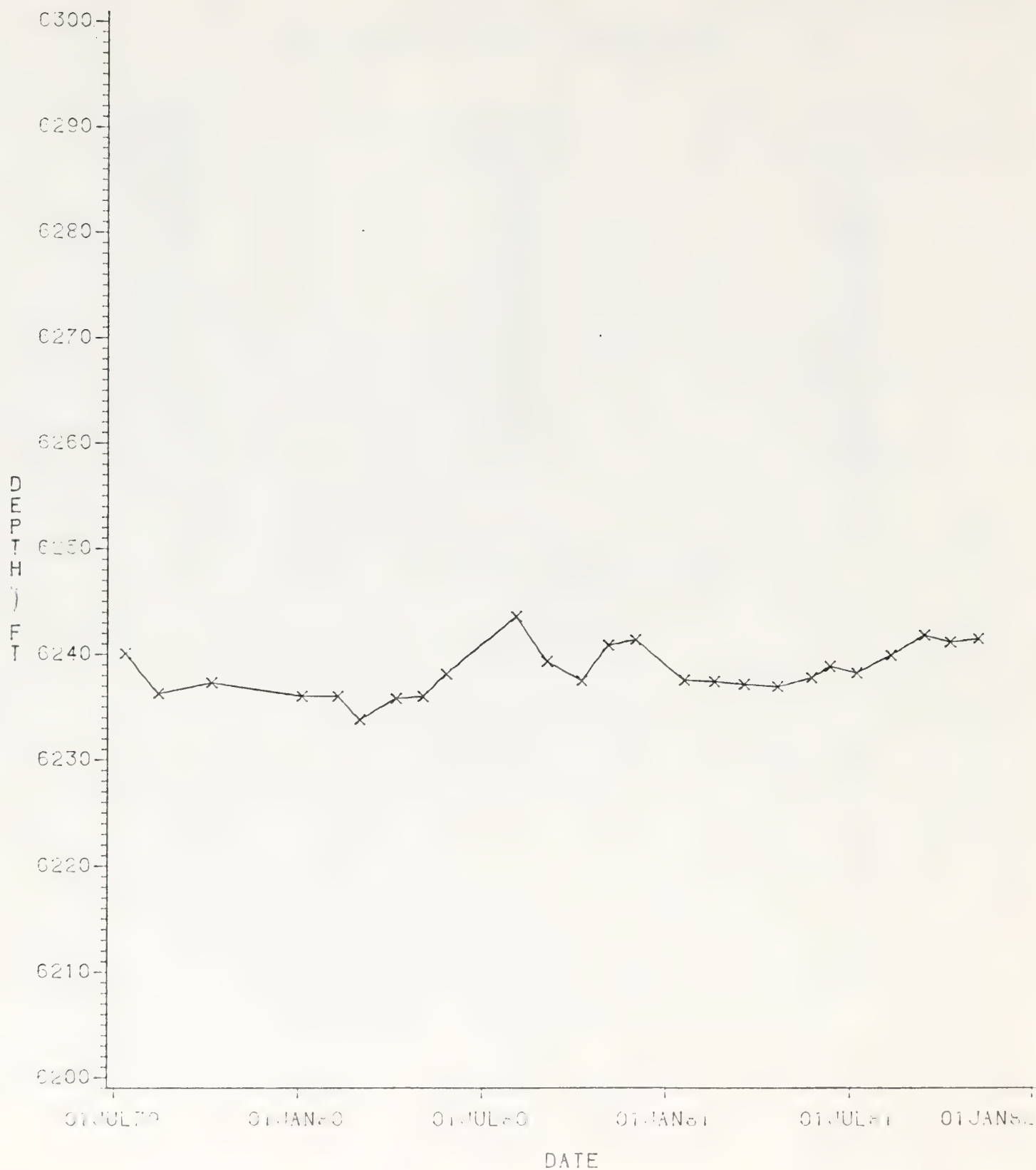
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TABLE 2.2.1.3-2
PLOTS OF WATER LEVELS IN ALLUVIAL WELLS

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
A-1	WA01	I-86
A-2	WA02	I-87
A-3	WA03	I-88
A-5	WA05	I-89
A-6	WA06	I-90
A-7	WA07	I-91
A-8	WA08	I-92
A-9	WA09	I-93
A-10	WA10	I-94
A-11	WA11	I-95
A-12	WA12	I-96
A-5A	WA55	I-97
A-5B	WA56	I-98

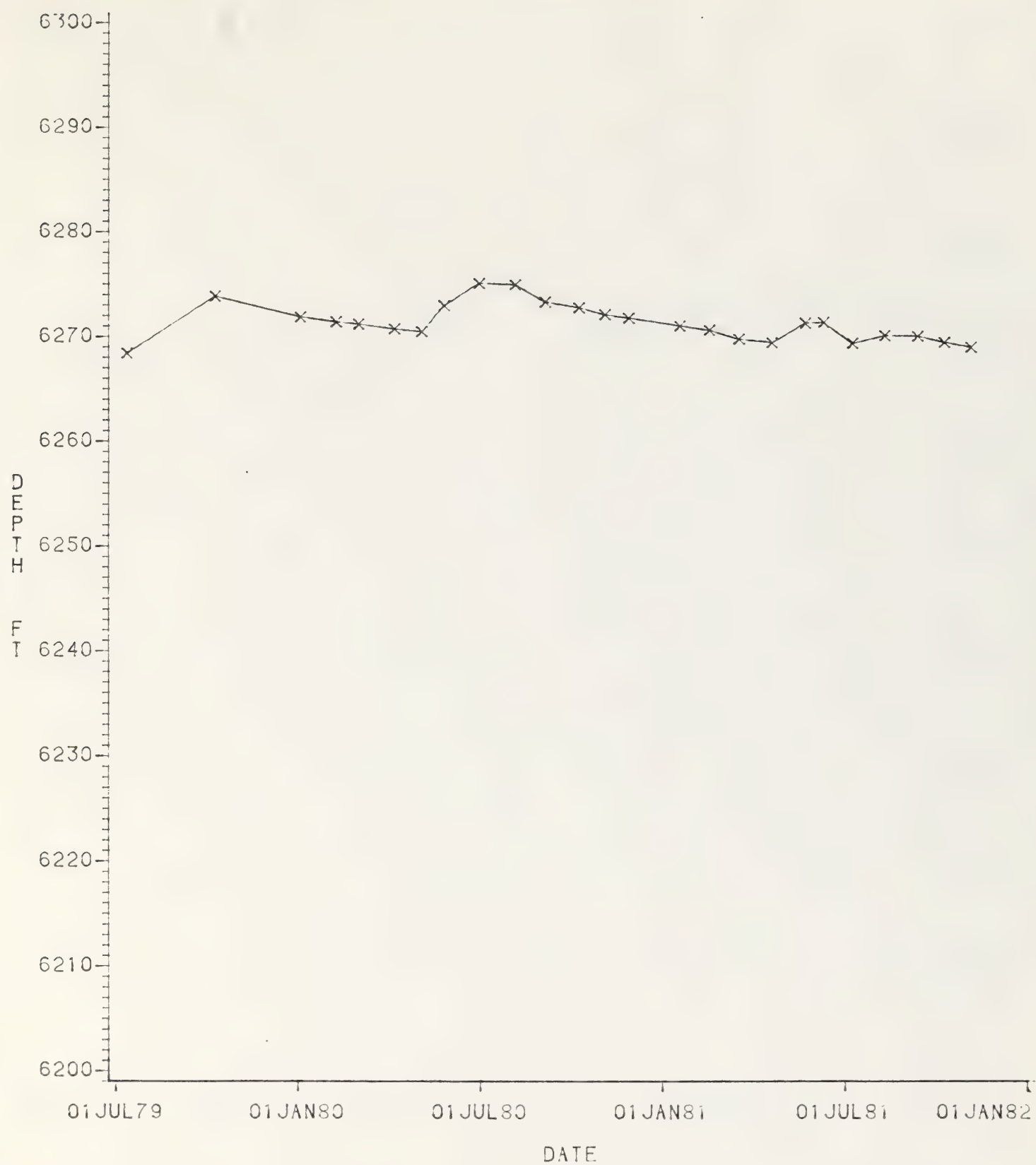
TIME SERIES FOR ALLUVIAL WELLS

LDC=WA01



TIME SERIES FOR ALLUVIAL WELLS

LOC=WA02



TIME SERIES FOR ALLUVIAL WELLS

LOC=WA03



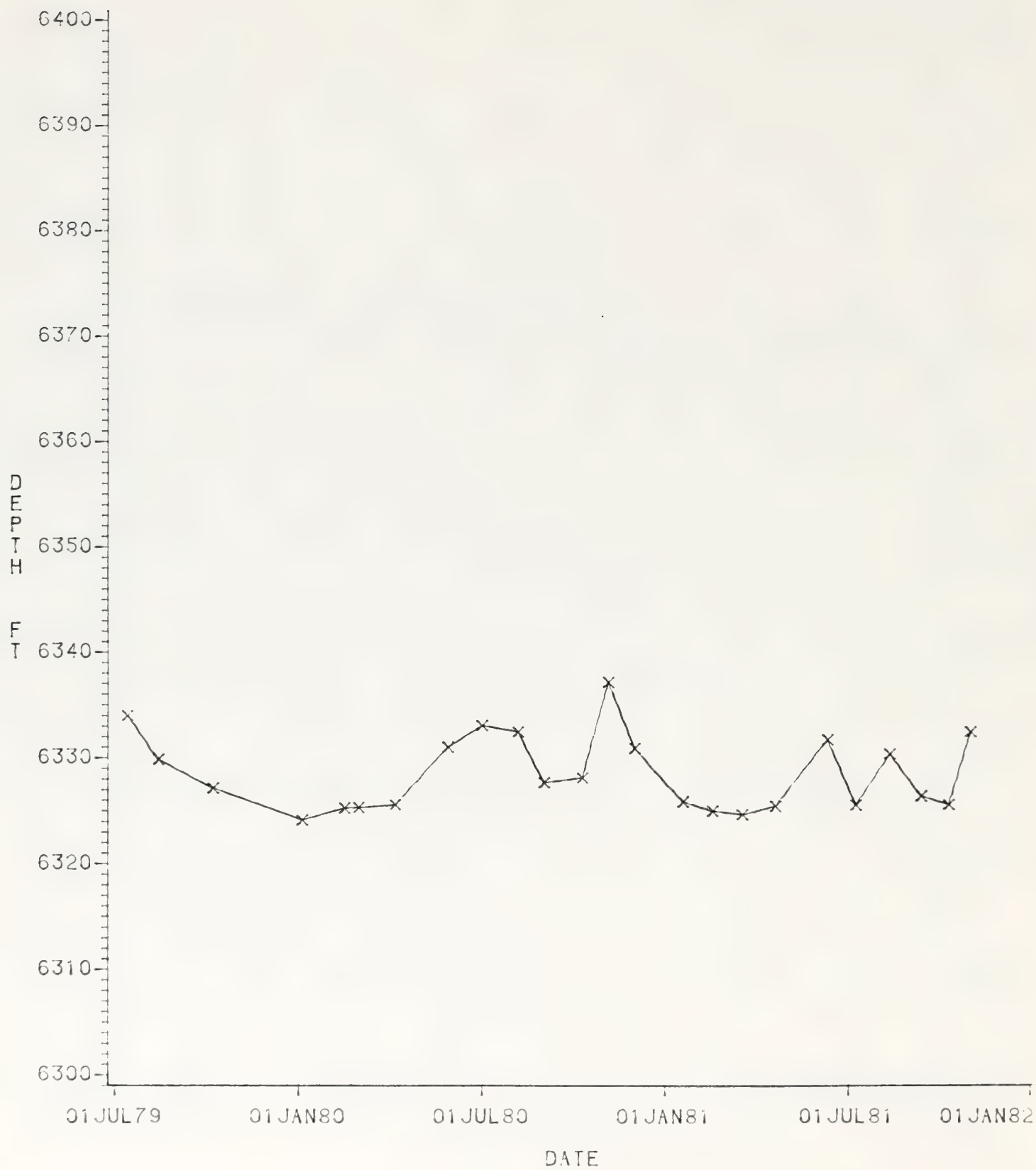
TIME SERIES FOR ALLUVIAL WELLS

LOC=WA05

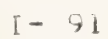


TIME SERIES FOR ALLUVIAL WELLS

LOC=WA06

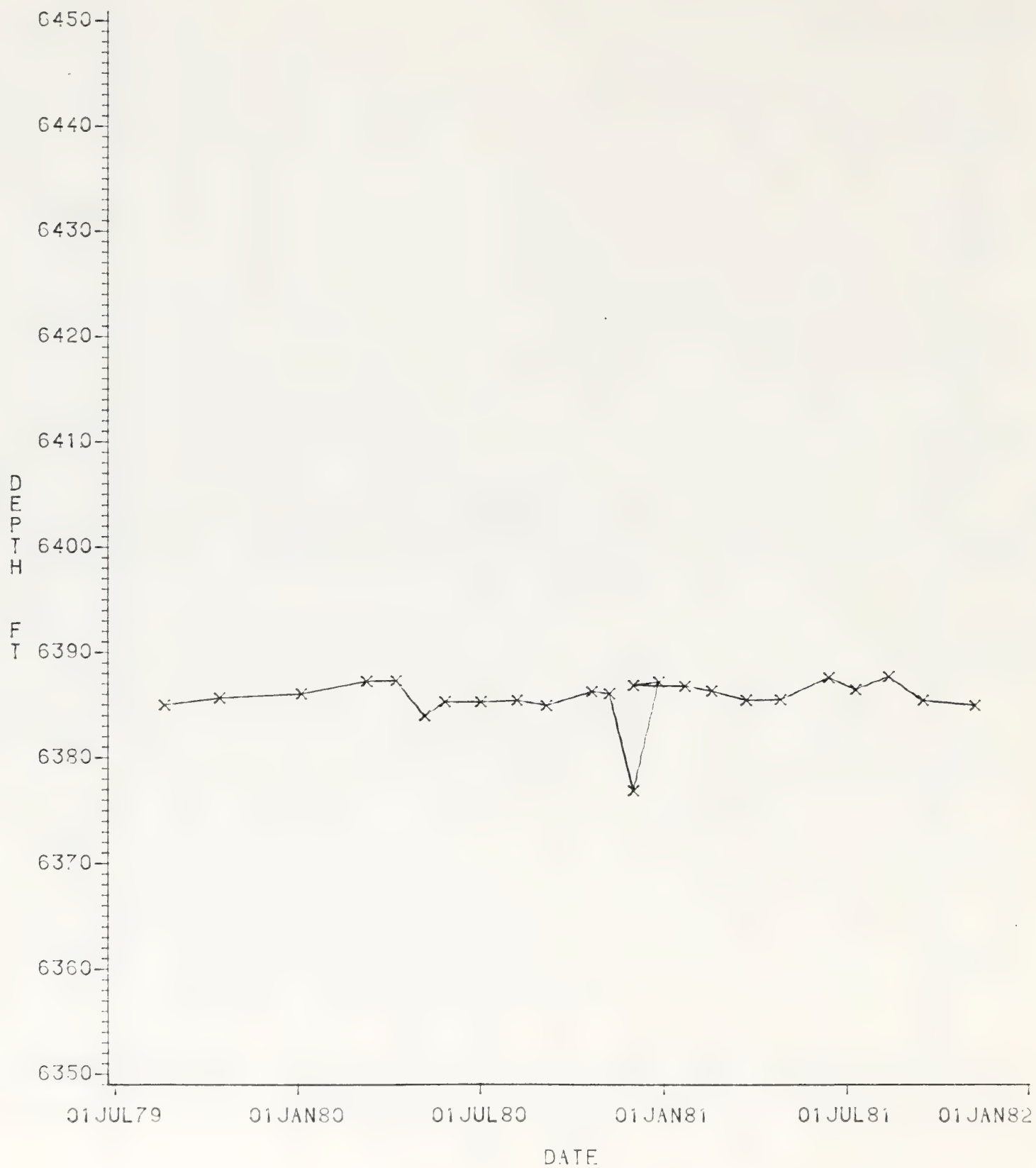


LOC=WA07



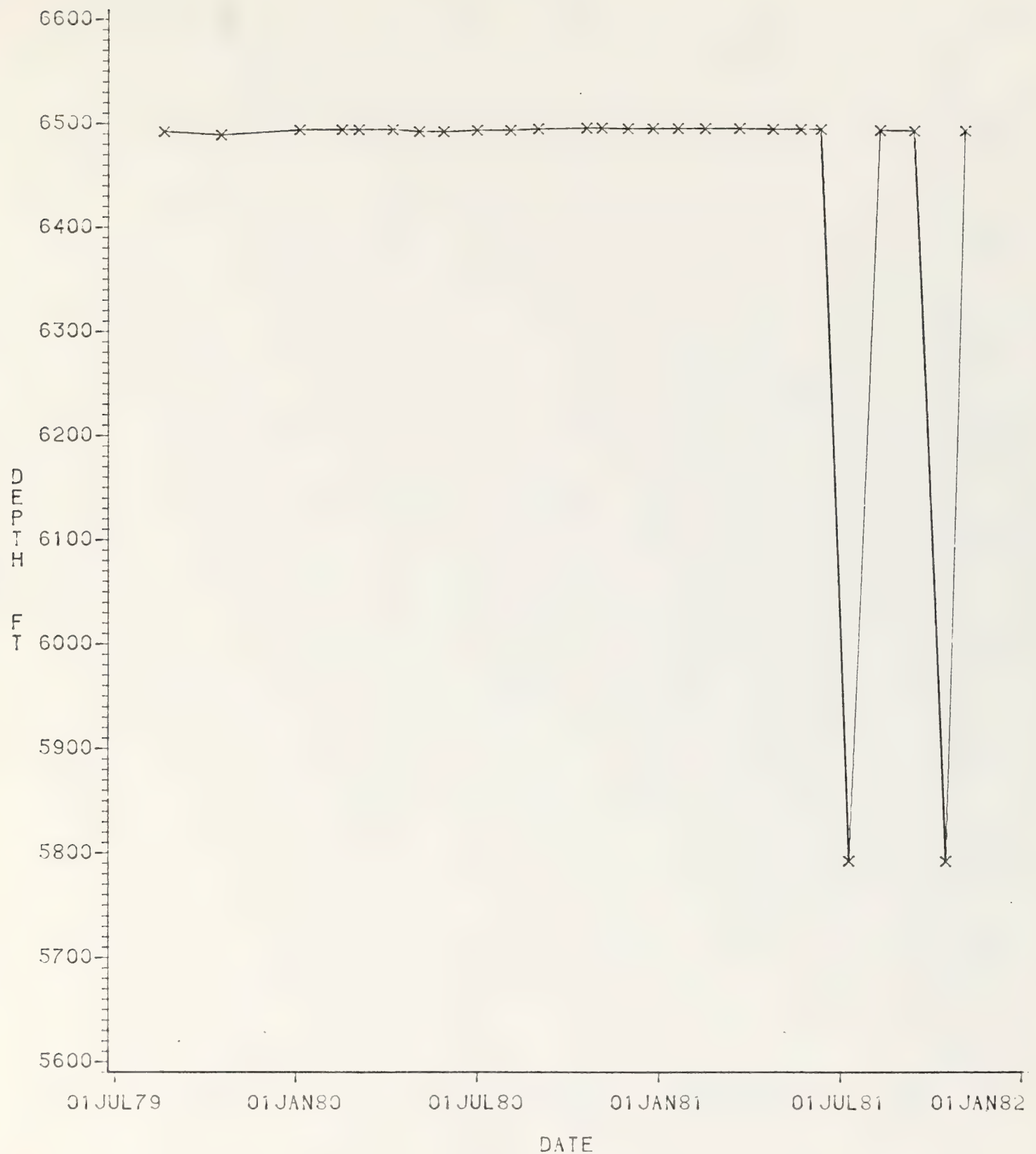
TIME SERIES FOR ALLUVIAL WELLS

LOC=WA08



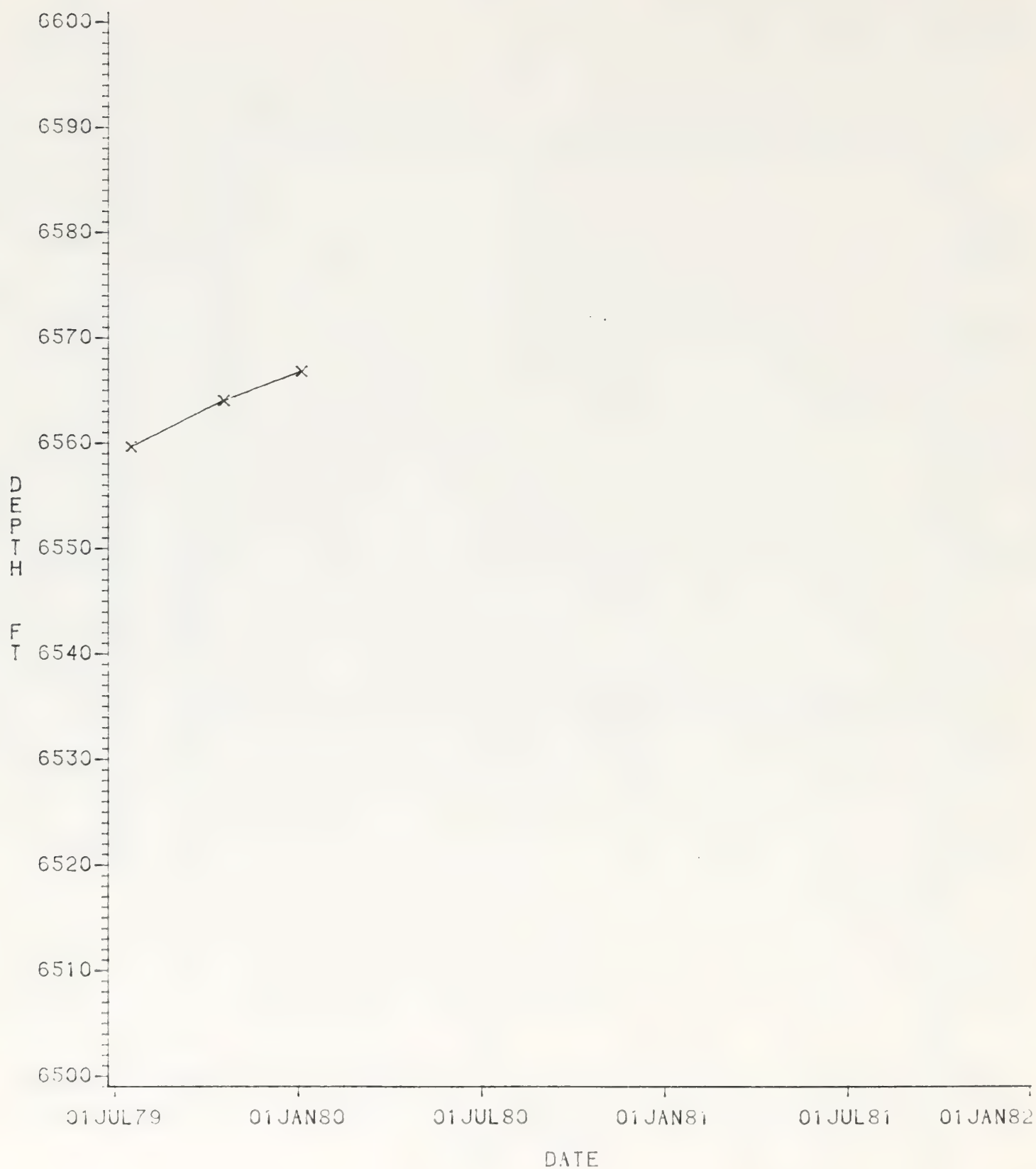
TIME SERIES FOR ALLUVIAL WELLS

LOC=WA09



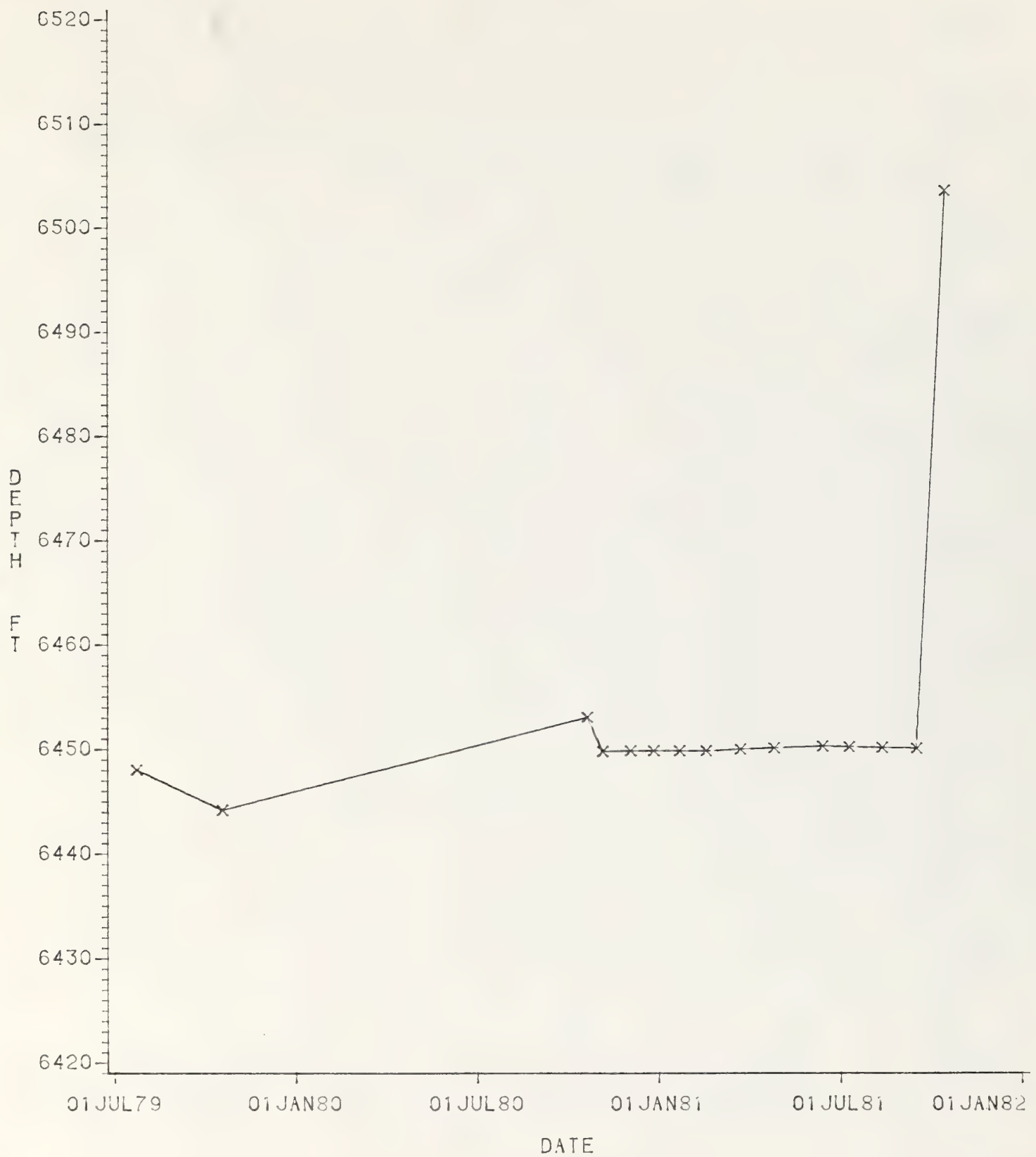
TIME SERIES FOR ALLUVIAL WELLS

LOC=WA10



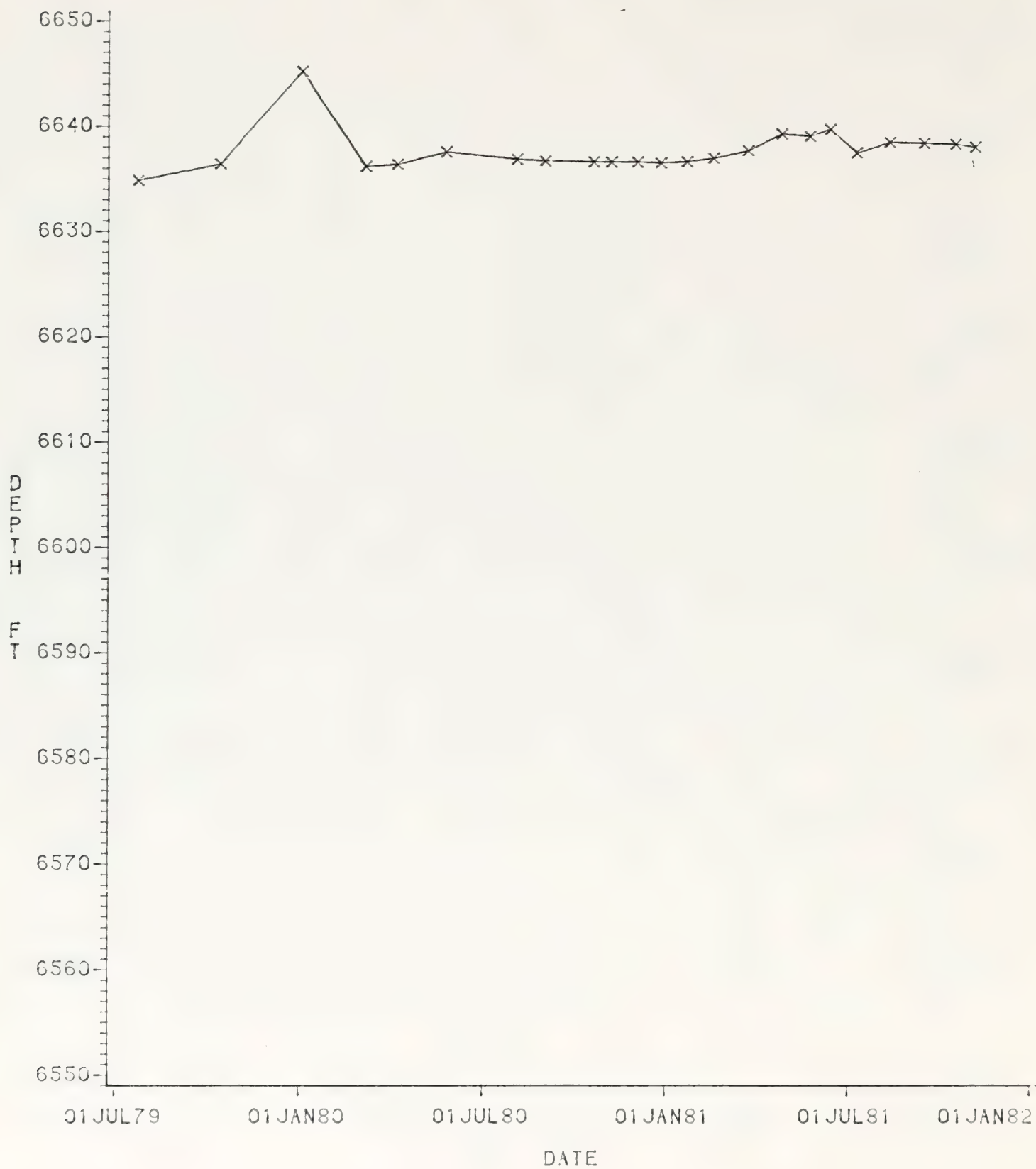
TIME SERIES FOR ALLUVIAL WELLS

LOC=WA11



TIME SERIES FOR ALLUVIAL WELLS

LOC=WA12



TIME SERIES FOR ALLUVIAL WELLS

LOC=WA55



TIME SERIES FOR ALLUVIAL WELLS

LOC=WA56

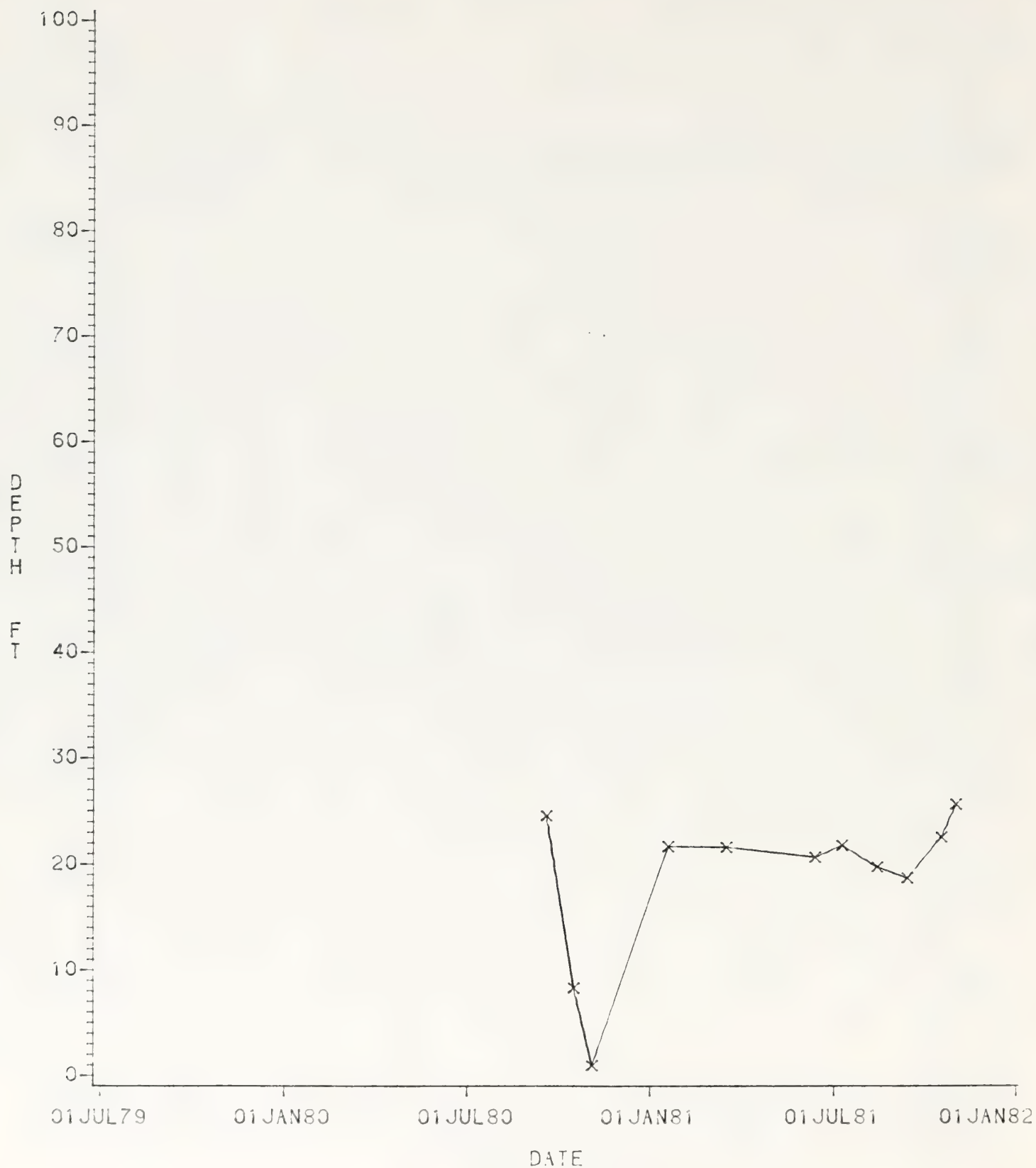


TABLE 2.2.1.3-3

STEVEN RECORDER DAILY
WATER LEVELS FOR ALLUVIAL WELLS

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
A-1	WA01	I-100
A-2	WA02	I-100
A-3	WA03	I-100
A-5	WA05	I-100
A-6	WA06	I-100
A-7	WA07	I-100
A-8	WA08	I-105
A-9	WA09	I-105
A-12	WA12	I-105
A-5A	WA55	I-105

CR-TRACT
STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL ID - FT FROM GROUND LEVEL

YR	MO	DAY	WA01 DEPTH (FT)	WA02 DEPTH (FT)	WA03 DEPTH (FT)	WA05 DEPTH (FT)	WA06 DEPTH (FT)	WA07 DEPTH (FT)
81	5	1	6236.77	6369.53	6327.38			6349.94
		2	6236.75	6369.57	6327.41			6349.95
		3	6236.72	6369.65	6327.47			6349.98
		4	6236.66	6369.65	6327.64			6350.00
		5	6236.57	6369.68	6327.60			6350.00
		6	6236.53	6369.72	6327.67			6350.02
		7	6236.46	6369.74	6327.51			6350.05
		8	6236.43	6369.75	6327.48			6350.13
		9	6236.33	6369.75	6327.48			6350.18
		10	6236.22	6369.75	6327.58			6350.21
		11	6236.29	6369.75	6327.65			6350.25
		12	6236.27	6369.74	6327.69			6350.33
		13	6236.23	6369.72	6327.69			6350.39
		14	6236.22	6369.71	6327.69			6350.50
		15	6236.22	6369.68	6327.69			6350.63
		16	6236.22	6369.63	6327.70			6350.66
		17	6236.22	6369.58	6327.71			6350.69
		18	6236.22	6369.56	6327.67			6350.72
		19	6236.22	6369.55	6327.59			6350.74
		20	6236.22	6369.53	6327.50			6350.76
		21	6236.22	6369.53	6327.47			6350.78
		22	6237.91	6369.53	6327.46			6350.81
		23	6237.90	6369.53	6327.46			6350.90
		24	6238.04	6369.51	6327.49			6351.04
		25	6238.04	6369.51	6327.46			6346.27
		26	6238.04	6369.52	6327.49			6351.65
		27	6238.04	6369.54	6327.45			6352.26
		28	6238.04	6369.56	6327.44			6352.99
		29	6238.04	6369.59	6327.44			6353.48
		30	6238.04	6369.65	6327.48			6353.91
		31	6238.04	6369.71	6327.50			6354.25
6		1	6238.04	6369.76	6327.52			6354.52
		2	6238.04	6369.80	6327.53			6354.89
		3	6238.04	6369.84	6327.51			6354.92
		4	6238.04	6369.87	6327.53			6354.97
		5	6238.04	6369.91	6327.55			6354.99
		6	6238.04	6369.95	6327.53			6354.98
		7	6238.04	6370.03	6327.53			6354.93
		8	6238.04	6370.06	6327.52			6354.82
		9	6238.04	6370.11	6327.64			6354.64
		10	6239.01	6370.25	6327.61		6325.58	6354.51
		11	6238.98	6370.30	6327.61		6324.96	6354.36
		12	6238.99	6370.36	6327.61		6324.69	6354.26
		13	6239.09	6370.44	6327.61		6324.41	6354.04
		14	6239.14	6370.51	6327.61		6324.14	6353.92
		15	6238.94	6370.52	6327.61			6353.74

CR-TRACT
STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL ID - FT FROM GROUND LEVEL																
YR	MO	DY	WA01		WA02		WA03		WA05		WA06		WA07			
			DEPTH (FT)		DEPTH (FT)		DEPTH (FT)		DEPTH (FT)		DEPTH (FT)		DEPTH (FT)			
81	6	16	6238.99	6271.02	6370.56	6327.56								6353.65		
		17	6238.94	6270.98	6370.62	6327.52								6353.53		
		18	6239.01	6270.94	6370.66	6327.50								6353.40		
		19	6239.02	6270.87	6370.69	6327.48								6353.28		
		20	6239.09	6270.85	6370.74	6327.48								6353.19		
		21	6239.13	6270.77	6370.77	6327.51								6353.07		
		22	6239.08	6270.67	6370.79	6327.59								6353.01		
		23	6239.11	6270.61	6370.81	6327.63								6352.97		
		24	6239.06	6270.57	6370.83	6327.72								6352.96		
		25	6239.11	6270.57	6370.83	6327.81								6352.96		
		26	6239.12	6270.59	6370.82	6327.71								6352.96		
		27	6239.20	6270.58	6370.82	6327.71								6352.96		
		28	6239.20	6270.57	6370.79	6327.71								6352.96		
		29	6239.20	6270.55	6370.74	6327.74								6352.96		
		30	6239.20	6270.53	6370.71	6327.74								6352.96		
		7		1	6239.20	6270.53	6370.66	6327.74								6352.96
				2	6239.20	6270.51	6370.62	6327.90								6352.96
				3	6239.20	6270.48	6370.56	6327.93								6352.96
				4	6239.20	6270.46	6370.53	6327.94								6352.96
				5	6239.20	6270.44	6370.47	6327.84								6352.96
				6	6239.50	6270.42	6370.41	6327.77								6352.96
				7	6239.60	6270.40	6370.40	6327.71								6352.96
				8	6238.37	6270.39		6327.67					6325.64	6325.64		6351.24
				9	6238.40	6270.39		6327.67								6351.31
				10	6238.43	6268.94	6369.20	6325.50								6351.41
				11	6238.54	6268.93	6369.18	6325.52								6351.47
				12	6238.56	6268.91	6369.17	6325.52								6351.59
				13	6238.43	6268.89	6369.16	6325.51								6351.75
				14	6238.53	6268.85	6369.15	6325.45								6351.79
				15	6238.54	6268.83	6369.14	6325.42								6351.89
		16	6238.55	6268.81	6369.14	6325.42								6351.93		
17	6238.50	6268.78	6369.13	6325.42								6351.90				
18	6238.64	6268.73	6369.11	6325.43								6351.88				
19	6238.70	6268.70	6369.11	6325.40								6351.80				
20	6238.71	6268.68	6369.11	6325.38								6351.77				
21	6238.71	6268.66	6369.11	6325.35								6351.76				
22	6238.71	6268.65	6369.11	6325.34								6351.75				
23	6238.71	6268.63	6369.11	6325.34								6351.72				
24	6238.71	6268.61	6369.12	6325.35								6351.73				
25	6238.76	6268.59	6369.15	6325.38								6351.74				
26	6238.76	6268.57	6369.16	6325.41								6351.75				
27	6238.77	6268.57	6369.17	6325.45								6351.76				
28	6238.77	6268.56	6369.17	6325.43								6351.78				
29	6238.77	6268.54	6369.19	6325.43								6351.79				
30	6238.77	6268.53	6369.21	6325.41								6351.90				
31	6238.77	6268.52	6369.25	6325.40								6351.90				

CB-TRACT
STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL ID - FT FROM GROUND LEVEL		WA01		WA02		WA03		WA05		WA06		WA07	
YR	MO	DAY	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	4	1	6238.77	6268.50	6369.27	6325.39	6325.39					6351.98	
		2	6238.77	6268.49	6369.29	6325.39	6325.39					6352.06	
		3	6238.77	6268.46	6369.35	6325.38	6325.38					6352.15	
		4	6238.77	6268.45	6369.40	6325.38	6325.38					6352.18	
		5	6238.77	6268.44	6369.43	6325.38	6325.38					6352.09	
		6	6238.77	6268.50	6369.46	6325.39	6325.39					6352.01	
		7	6238.77	6268.42	6369.49	6325.39	6325.39					6351.89	
		8	6238.77	6268.41	6369.50	6325.39	6325.39					6351.78	
		9	6238.77	6268.80	6369.55	6325.42	6325.42					6351.75	
		10	6238.74	6268.77	6369.55	6325.42	6325.42					6351.74	
		11	6238.73	6268.74	6369.55	6325.50	6325.50					6351.74	
		12	6237.10		6370.55	6325.54	6325.54					6351.42	
		13	6237.05		6370.55	6327.75	6327.75						
		14	6237.05		6370.54	6327.74	6327.74						
		15	6237.06		6370.51	6327.73	6327.73						
		16	6237.11		6370.47	6327.73	6327.73						
		17	6237.04		6370.45	6327.75	6327.75						
		18	6237.04		6370.43	6327.77	6327.77						
		19	6237.04		6370.37	6327.78	6327.78						
		20	6237.04		6370.31	6327.76	6327.76						
		21	6237.04		6370.27	6327.73	6327.73						
		22	6237.06		6370.21	6327.71	6327.71						
		23	6237.10		6370.15	6327.71	6327.71						
		24	6237.05		6370.09	6327.72	6327.72						
		25	6237.10		6370.04	6327.70	6327.70						
		26	6237.06		6369.97	6327.74	6327.74						
		27	6237.05		6369.92	6327.76	6327.76						
		28	6237.05		6369.83	6327.75	6327.75						
		29	6237.08		6369.78	6327.75	6327.75						
		30	6237.18		6369.70	6327.69	6327.69						
		31	6237.17		6369.62	6327.70	6327.70						
9		1	6237.23		6369.56	6327.71	6327.71						
		2	6237.21		6369.51	6327.70	6327.70						
		3	6237.23		6369.40	6327.72	6327.72						
		4	6237.23		6369.32	6327.74	6327.74						
		5	6237.23		6369.22	6327.81	6327.81						
		6	6237.52		6369.16	6327.82	6327.82						
		7	6237.60		6369.09	6327.82	6327.82						
		8	6237.58		6368.97	6327.84	6327.84						
		9	6237.68		6368.88	6327.96	6327.96						
		10	6237.77		6368.81	6328.00	6328.00						
		11	6237.78		6368.74	6327.02	6327.02						
		12	6237.84		6368.64	6327.04	6327.04						
		13	6237.90		6368.56	6327.05	6327.05						
		14	6237.89		6368.51	6327.05	6327.05						
		15	6241.94		6269.95	6327.04	6327.04						

CR-TRACT
STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL ID - FT FROM GROUND LEVEL		WA01		WA02		WA03		WA05		WA06		WA07	
YR	MO	DAY	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	9	16	6241.96	6269.95	6368.22	6327.07	6326.49						
		17	6241.92	6269.92	6368.15	6327.06	6326.44						
		18	6241.97	6269.91	6368.04	6327.07	6326.41						
		19	6242.13	6269.90	6367.96	6327.08	6326.38						
		20	6242.20	6269.85	6367.83	6327.09	6326.31						
		21	6242.12	6269.84	6367.78	6327.11	6326.29						
		22	6242.19	6269.82	6367.72	6327.11	6326.26						
		23	6242.18	6269.79	6367.61	6327.13	6326.22						
		24	6242.20	6269.78	6367.55	6327.14	6326.18						
		25	6242.14	6269.76	6367.44	6327.15	6326.14						
		26	6242.20	6269.74	6367.37	6327.15	6326.11						
		27	6242.20	6269.71	6367.28	6327.05	6326.07						
		28	6242.07	6269.70	6367.20	6327.02	6326.04						
		29	6242.11	6269.69	6367.10	6327.02	6326.01						
		30	6242.00	6269.68	6367.01	6327.02	6325.94						
10		1	6241.98	6269.67	6366.95	6328.00	6325.96						
		2	6241.99	6269.66	6366.83	6328.00	6325.93						
		3	6242.07	6269.66	6366.77	6327.93	6325.91						
		4	6242.10	6269.66	6366.69	6327.91	6325.88						
		5	6242.04	6269.65	6366.60	6327.87	6325.86						
		6	6242.06	6269.65	6366.52	6327.87	6325.86						
		7	6242.17	6269.64	6366.42	6327.88	6325.86						
		8	6242.20	6269.64	6366.37	6327.88							
		9	6242.20	6269.63	6366.27	6327.88							
		10	6242.20	6269.62	6366.21	6327.89							
		11	6242.20	6269.62	6366.14	6327.89							
		12	6242.20	6269.61	6365.25	6327.88							
		13	6242.20	6267.98	6365.19	6327.84							
		14	6241.26	6268.61	6365.10	6328.50	6325.78						
		15	6241.38	6268.61	6365.03	6328.48	6325.77						
		16	6241.43	6268.61	6364.95	6328.53	6325.75						
		17	6241.54	6268.61	6364.86	6328.48	6325.74						
		18	6241.65	6268.61	6364.79	6328.47	6325.70						
		19	6241.78	6268.59	6364.72	6328.47	6325.69						
		20	6241.86	6268.58	6364.66	6328.44	6325.67						
		21	6241.99	6268.57	6364.58	6328.42	6325.66						
		22	6242.15	6268.56	6364.51	6328.44	6325.66						
		23	6242.19	6268.55	6364.46	6328.44	6325.66						
		24	6242.19	6268.53	6364.37	6328.42	6325.65						
		25	6242.19	6268.52	6364.33	6328.40	6325.59						
		26	6242.19	6268.52	6364.26	6328.39	6325.19						
		27	6242.19	6268.52	6364.18	6328.38	6324.60						
		28	6242.19	6268.51	6364.12	6328.37							
		29	6242.19	6268.51	6364.05	6328.37							
		30	6242.19	6268.50	6364.00	6328.39							
		31	6242.19	6268.49	6363.93	6328.39							

CH-TRACT
STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL ID - FT FROM GROUND LEVEL

YR	MO	DAY	WA01 DEPTH (FT)	WA02 DEPTH (FT)	WA03 DEPTH (FT)	WA05 DEPTH (FT)	WA06 DEPTH (FT)	WA07 DEPTH (FT)
81	11	1	6242.19	6268.49	6363.86	6328.39		
		2	6242.19	6268.48	6363.80	6328.40		
		3	6242.19	6268.48	6363.75	6328.40		
		4	6242.19	6268.48	6363.70	6328.40		
		5	6242.19	6268.47	6363.65	6328.40	6332.67	
		6	6242.19	6268.47	6363.59	6328.40	6332.76	
		7	6242.19	6268.46	6363.52	6328.40	6333.09	
		8	6242.19	6268.45	6363.45	6328.43	6332.88	
		9	6242.19	6268.44	6363.40	6328.46	6332.62	
		10	6242.02	6268.44	6363.38	6328.47	6332.62	
		11	6241.90			6328.47	6332.62	

CB-TRACT

STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL ID - FT FROM GROUND LEVEL

YR	MO	DY	WA08	WA09	WA12	WA55
			DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	5	1	6386.98	6493.46		
		2	6387.32	6493.46		
		3	6387.58	6493.46		
		4	6387.76	6493.46		
		5	6387.89	6493.46		
		6	6388.00	6493.45		
		7	6388.12	6493.45		
		8	6387.83	6493.45		
		9	6387.71	6493.45		
		10	6387.71	6493.45		
		11	6387.65	6493.44		
		12	6387.53	6493.43		
		13	6387.47	6493.43		
		14	6387.40	6493.42		
		15	6387.33	6493.39		
		16	6387.24	6493.39		
		17	6387.21	6493.39		
		18	6387.21	6493.39		
		19	6387.27	6493.38		
		20	6387.33	6493.38		
		21	6387.33	6493.37		
		22	6387.33	6493.05		
		23	6387.31	6493.09		
		24	6387.28	6493.09		
		25	6387.25	6493.09		
		26	6387.23	6493.09		
		27	6387.11	6493.09		
		28	6387.10	6493.08		
		29	6387.11	6493.07		
		30	6387.14	6493.06		
		31	6387.24	6493.06		
6		1	6387.28	6493.05		
		2	6387.28	6493.03		
		3	6387.26	6493.03		
		4	6387.23	6493.03		
		5	6387.06	6493.02		
		6	6387.03	6493.01		
		7	6387.11	6493.01		
		8	6387.15	6492.99		
		9	6387.85	6492.98		
		10	6387.84	6492.98		
		11	6387.68	6493.25	6441.10	
		12	6387.65	6493.25	6440.71	
		13	6387.63	6493.24	6440.71	
		14	6387.61	6493.23	6440.71	
		15	6387.58	6493.23	6440.71	

CB-TRACT
STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL			
YR	MO	DY	WA03 DEPTH (FT)	WA09 DEPTH (FT)	WA12 DEPTH (FT)	WA55 DEPTH (FT)
81	6	16	6387.53	6493.21		6440.71
		17	6387.44	6493.21		6440.71
		18	6387.24	6493.21		6441.03
		19	6387.22	6493.17		6441.46
		20	6387.22	6493.15		6441.85
		21	6387.28	6493.14		6442.19
		22	6387.32	6493.14		6442.35
		23	6387.35	6493.11		6442.44
		24	6387.36	6493.10		6442.49
		25	6387.34	6493.08		6442.75
		26	6387.33	6493.06		6442.89
		27	6387.31	6493.05		6442.96
		28	6387.31	6493.04		6442.75
		29	6387.25	6493.04		
		30	6387.22	6493.02		
	7	1	6387.22	6493.01		
		2	6387.23	6493.00		
		3	6387.40	6492.99		
		4	6387.59	6492.97		
		5	6387.79	6492.96		
		6	6387.95	6492.94		
		7	6388.09	6492.92		
		8	6387.98	6492.92		
		9	6387.97	6492.92		6439.33
		10	6386.59	6491.72		6439.33
		11	6386.56	6491.72		6439.33
		12	6386.51	6491.72		6439.33
		13	6386.51	6491.72		6439.34
		14	6386.51	6491.72	6637.84	6439.41
		15	6386.63	6491.72	6637.84	6439.44
		16	6386.63	6491.72	6637.84	6439.46
		17	6386.58	6491.71	6637.84	6439.47
		18	6386.36		6637.84	6439.55
		19	6386.30		6637.84	6439.55
		20	6386.23		6637.84	
		21	6386.18		6637.84	
		22	6386.15		6637.84	
		23	6386.12		6637.84	
		24	6386.08		6637.84	
		25	6386.05		6637.84	
		26	6386.03		6637.84	
		27	6386.02		6637.84	
		28	6386.01		6637.84	
		29	6386.00		6637.84	
		30	6386.00		6637.84	
		31	6385.98		6637.84	

CB-TRACT
STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

WELL ID - FT FROM GROUND LEVEL						
			WA02	WA09	WA12	WA55
YR	MO	DY	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	8	1	6385.97		6637.83	
		2	6385.97		6637.83	
		3	6386.07		6637.82	
		4	6386.22		6637.82	
		5	6386.32		6637.81	
		6	6386.37		6637.77	
		7	6386.40		6637.76	
		8	6386.48		6637.76	
		9	6386.50		6637.74	
		10	6386.50		6637.72	
		11	6386.50		6637.71	
		12	6386.50	6492.23	6637.68	
		13	6387.20	6492.23	6638.82	
		14	6387.19	6492.23	6638.82	6441.54
		15	6387.18	6492.23	6638.82	6441.58
		16	6387.18	6492.23	6638.82	6441.24
		17	6385.66	6492.24	6638.81	6441.03
		18	6385.62	6492.24	6638.81	6441.03
		19	6385.61	6492.24	6638.81	6441.18
		20	6385.59	6492.24	6638.81	6441.34
		21	6385.57	6492.24	6638.81	6441.35
		22	6385.55	6492.24	6638.81	6441.35
		23	6385.51	6492.24	6638.81	6441.47
		24	6385.51	6492.24	6638.81	6441.55
		25	6385.51	6492.26	6638.81	6441.54
		26	6385.50	6492.26	6638.81	6441.24
		27	6385.49	6492.27	6638.81	6441.22
		28	6385.49	6492.28	6638.81	6441.28
		29	6385.49	6492.28	6638.81	6441.47
		30	6385.49	6492.28	6638.80	6441.68
		31	6385.50	6492.30	6638.80	6441.93
9		1	6385.49	6492.30	6638.80	6442.06
		2	6385.48	6492.30	6638.80	6442.18
		3	6385.39	6492.31	6638.79	6441.28
		4	6385.11	6492.32	6638.79	6440.34
		5	6385.05	6492.32	6638.79	6440.01
		6	6385.05	6492.34	6638.79	6440.01
		7	6385.05	6492.34	6638.79	6440.01
		8	6385.07	6492.34	6638.79	6440.58
		9	6385.12	6492.35	6638.79	6440.65
		10	6385.14	6492.36	6638.79	6440.65
		11	6385.22	6492.36	6638.79	6440.65
		12	6385.30	6492.36	6638.79	6440.65
		13	6385.35	6492.38	6638.79	6440.65
		14	6385.38	6492.38	6638.79	6440.65
		15	6385.40	6492.38	6638.79	6440.65

CB-TRACT
STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL			
			WA08	WA09	WA12	WA55
			DEPTH	DEPTH	DEPTH	DEPTH
YR	MO	DY	(FT)	(FT)	(FT)	(FT)
81	9	16	6385.42	6492.38	6638.79	6440.65
		17	6385.45	6492.23	6638.74	6441.29
		18	6385.63	6492.23	6638.74	6440.85
		19	6385.62	6492.23	6638.74	6440.37
		20	6385.61	6492.23	6638.74	6440.00
		21	6385.61	6492.22	6638.74	6439.95
		22	6385.58	6492.22	6638.74	6439.95
		23	6385.58	6492.22	6638.74	6439.95
		24	6385.57	6492.22	6638.74	6439.97
		25	6385.56	6492.21	6638.74	6439.95
		26	6385.56	6492.21	6638.74	6439.95
		27	6385.56	6492.21	6638.74	6439.95
		28	6385.56	6492.21	6638.74	6439.95
		29	6385.56	6492.21	6638.74	6439.95
		30	6385.64	6492.21	6638.74	6439.95
	10	1	6385.67	6492.21	6638.74	6439.95
		2	6385.70	6492.21	6638.74	6439.95
		3	6385.71	6492.21	6638.74	6439.95
		4	6385.72	6492.12	6638.73	6439.95
		5	6385.73	6492.12	6638.72	6439.95
		6	6385.73	6492.12	6638.71	6439.95
		7	6385.73	6492.12	6638.71	6439.95
		8	6385.73	6492.12	6638.71	6439.95
		9	6385.73	6492.12	6638.71	6439.95
		10	6385.73	6492.12	6638.71	6439.95
		11	6385.73	6492.12	6638.69	6439.95
		12	6385.74	6492.12	6638.68	6439.95
		13	6385.74	6492.12	6638.68	6439.95
		14	6385.74	6492.12	6638.68	6439.95
		15	6385.74	6492.12	6638.68	6439.95
		16	6385.72	6492.12	6638.68	6439.95
		17	6385.72	6492.12	6638.68	6439.95
		18	6385.72	6492.12	6638.68	6439.95
		19	6385.73	6491.99	6638.68	6439.95
		20	6385.73	6492.03	6638.68	6439.93
		21	6385.74	6492.03	6638.69	6439.93
		22	6385.74	6492.03	6638.69	6439.93
		23	6385.74	6492.03	6638.69	6439.93
		24	6385.74	6492.03	6638.69	6439.93
		25	6385.76	6492.03	6638.69	6439.93
		26	6385.25	6492.03	6638.69	6439.93
		27	6385.26	6492.03	6638.69	6439.93
		28	6385.32	6492.03	6638.69	6439.93
		29	6385.35	6492.03	6638.70	6439.93
		30	6385.35	6492.03	6638.70	6439.93
		31	6385.35	6492.03	6638.70	6439.93

CB-TRACT
 STEVENS RECORDER WATER LEVELS FOR ALLUVIAL WELLS
 FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL			
			WA08	WA09	WA12	WA55
			DEPTH	DEPTH	DEPTH	DEPTH
YR	MO	DAY	(FT)	(FT)	(FT)	(FT)
81	11	1	6385.35	6492.03	6638.70	6439.93
		2	6385.35	6492.03	6638.70	6439.93
		3	6385.35	6492.03	6638.70	6439.93
		4	6385.35	6492.04	6638.70	6439.93
		5	6385.34	6492.04	6638.70	6439.93
		6	6385.34	6492.04	6638.70	
		7	6385.34	6492.04	6638.70	
		8	6385.34	6492.04	6638.70	
		9	6385.34	6492.04	6638.70	
		10	6385.34	6492.05	6638.70	
		11	6385.34			

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2.2.1.4 Upper Aquifer Wells

Water levels for Upper Aquifer Wells for this reporting period are presented in Table 2.2.1.4-1. The deep well monitoring network is presented in Section 2.2.1.4, Figure 2.2.1.4-1.

In wells required under the Water Augmentation Plan (WAP), levels data are presented in Table 2.2.1.4-2. Regarding well WX74, no data were available; WX75 has been substituted and data are included in Table 2.2.1.4-2. These wells are located on Exhibit A (Figure 2.2-1 jacket map).

Tables 2.2.1.4-3 and 2.2.1.4-4 present well levels data for wells which were recompleted in 1980. These tables separate the bedrock well stations by classifications of UPC₁ and UPC₂.

Plots of WAP upper aquifer well levels are presented in this section; to reference these plots see Table 2.2.1.4-5. Plots for Deep Bedrock well levels monitored on and around C-b tract are presented in Table 2.2.1.4-6 with corresponding page number for each well.

Stevens Recorder instrumentation for monitoring continuous water levels are operating at five upper aquifer well stations. Table 2.2.1.4-7 lists these wells and corresponding computer codes.

During this reporting period well levels were affected by two principal items:

- 1) the Production, Service and V/E shafts were dewatered (the V/E shaft was later allowed to flood as of September) and 2) a reinjection test was conducted from March 2 thru June 20, 1981; associated reinjection pumping rates are shown in Figure 2.2.1-6.

Daily levels data are presented in table form of Upper Aquifer, UPC₁ and UPC₂ wells are reported in Section 2.2.1.6.

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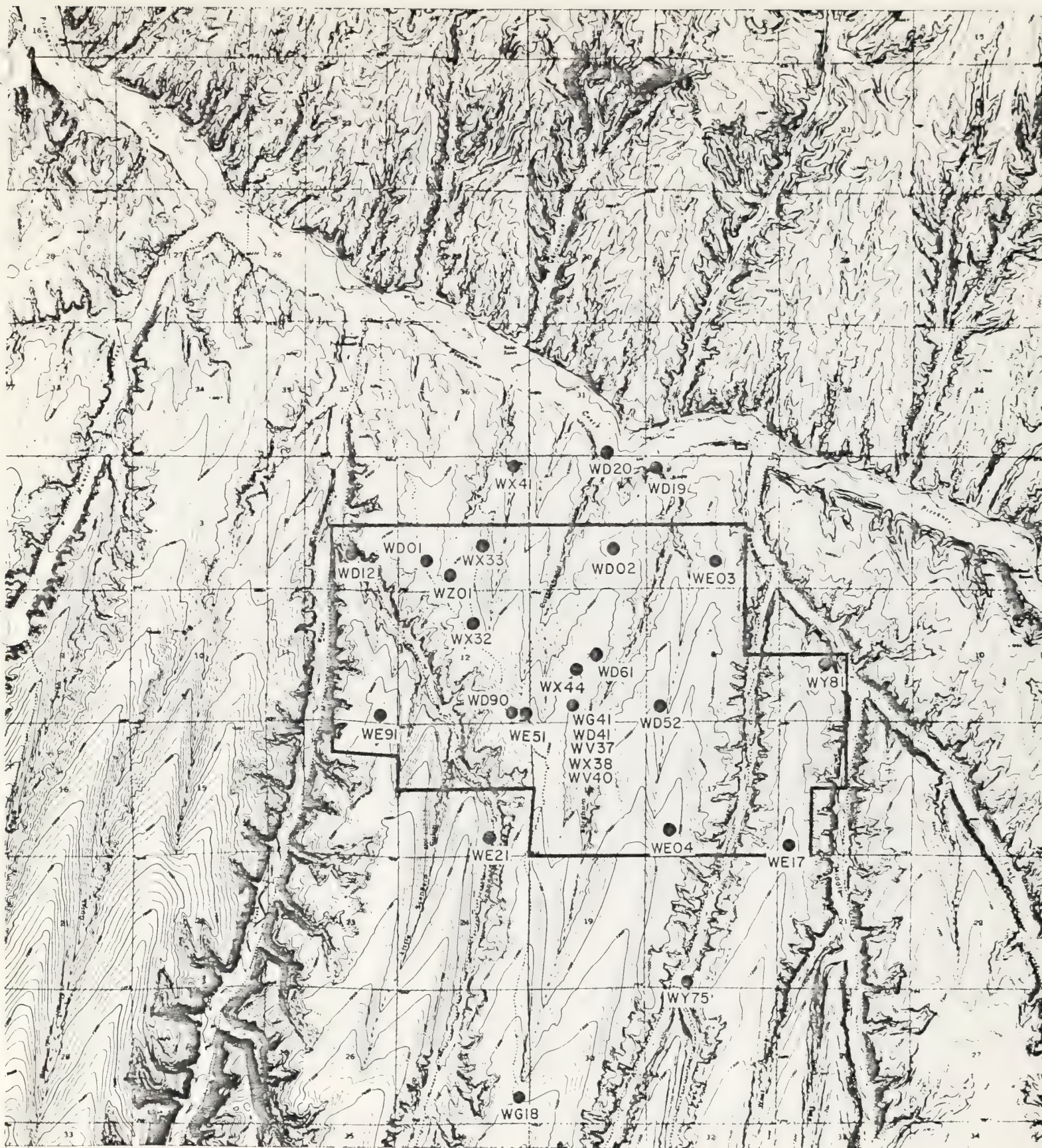


FIGURE 2.2.1.4-1
DEEP WELL MONITORING NETWORK
Cb TRACT

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Table 2.2.1.4-1

CB-TRACT
WATER LEVELS IN UPPER AQUIFER WELLS
FOR SAMPLE DATE SHOWN

		WELL ID - M.P. ELEV (FT)	
		WX32	WX44
YR	MO	DEPTH (FT)	DEPTH (FT)
81	5	6082	6477
	6	6039	6522
	7	6039	6494
	8	6036	6482
	9	6036	6497
	10		6511
	11	6036	

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

Table 2.2.1.4-2

CB-TRACT
WATER LEVELS IN UPPER AQUIFER WELLS
REQUIRED BY WATER AUGMENTATION PLAN
FOR SAMPLE DATE SHOWN

YR	MO	WELL ID - MEASURING POINT ELEVATION (FT)									
		WX64	WX65	WX67	WX69	WX71	WX72	WX73	WX75		
		DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	5	6765	6331	6308	6898	FLWING	6760	7647	7513		
	6	6765	6330	6308	6898	FLWING	6760	7647	7513		
	7	6763	6328	6306	6895	INACCS	6758	7644	7512		
	8	6755	6330	6307	6896	DRY	6759	7646	7512		
	9	6765	6329	6307	6898	FLWING	6759	7646	7513		

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

Table 2.2.1.4-3

CB-TRACT
WATER LEVELS
UPPER PARACHUTE CREEK 1
FOR SAMPLE DATE SHOWN

YR	MO	WD01 ELEV (FT)	WD02 ELEV (FT)	WD11 ELEV (FT)	WD12 ELEV (FT)	WD14 ELEV (FT)	WD15 ELEV (FT)	WD17 ELEV (FT)	WD18 ELEV (FT)	WD19 ELEV (FT)
81	5	6164	6341	6324	6326	6491	6518	6662	6917	6339
	6	6162	6341	6324	6326	6509	6520	6662	6917	6341
	7	6164	6342	6325	6326	6507	6526	6663	6917	6341
	8		6345	6325	6326	6492	6496	6658	6905	
	9		6348	6327	6328	6496	6503		6903	6340
	10		6352	6320	6324	6539	6538	6657	6903	
	11		6353	6336	6339			6657		6345

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

Table 2.2.1.4-3 (cont)

CB-TRACT
WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

YR	MO	WD20 ELEV (FT)	WD21 ELEV (FT)	WD41 ELEV (FT)	WD51 ELEV (FT)	WD52 ELEV (FT)	WD57 ELEV (FT)	WD61 ELEV (FT)	WD90 ELEV (FT)	WD91 ELEV (FT)
81	5	6224	6709	6510	6694	6584	6641	6502	6626	6485
	6	6225	6709	6520		6585	6640	6502	6626	6485
	7	6228	6711	6516		6588	6640	6507	6639	6487
	8	6234	6708	6511		6582	6640	6506	6651	6485
	9	6271	6706	6513		6574		6506	6654	6484
	10	6285		6529			6642	6507	6656	
	11	6299	6711			6587	6640	6515		6489

PLUGGED = WELL PLUGGED
 DRY = WELL DRY
 FLOWING = WELL DRY
 INACCS = WELL INACCESSABLE

Table 2.2.1.4-4

CB-TRACT
WATER LEVELS
UPPER PARACHUTE CREEK 2
FOR SAMPLE DATE SHOWN

YR	MO	WE03 ELEV (FT)	WE04 ELEV (FT)	WE11 ELEV (FT)	WE17 ELEV (FT)	WE18 ELEV (FT)	WE20 ELEV (FT)	WE21 ELEV (FT)	WE41 ELEV (FT)	WE51 ELEV (FT)	WE52 ELEV (FT)	WE61 ELEV (FT)	WE91 ELEV (FT)
81	5	6280	6655	6319	6601	6916		6707	6480	6560	6529	6502	6460
	6	6281	6656	6319	6602	6916	6305	6707	6527	6583	6552	6502	6466
	7	6282	6656	6319	6603	6915	6296	6708	6498	6600	6546	6507	6469
	8	6282	6656			6910	6245	6672	6485	6223	6552	6506	6464
	9	6287	6657	6320		6902	6261	6667	6502	6352	6556	6507	6462
	10	6314		6309		6902	6272		6554	6425		6507	
	11	6322	6658	6333	6564		6291	6677			6587	6515	6482

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLOWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

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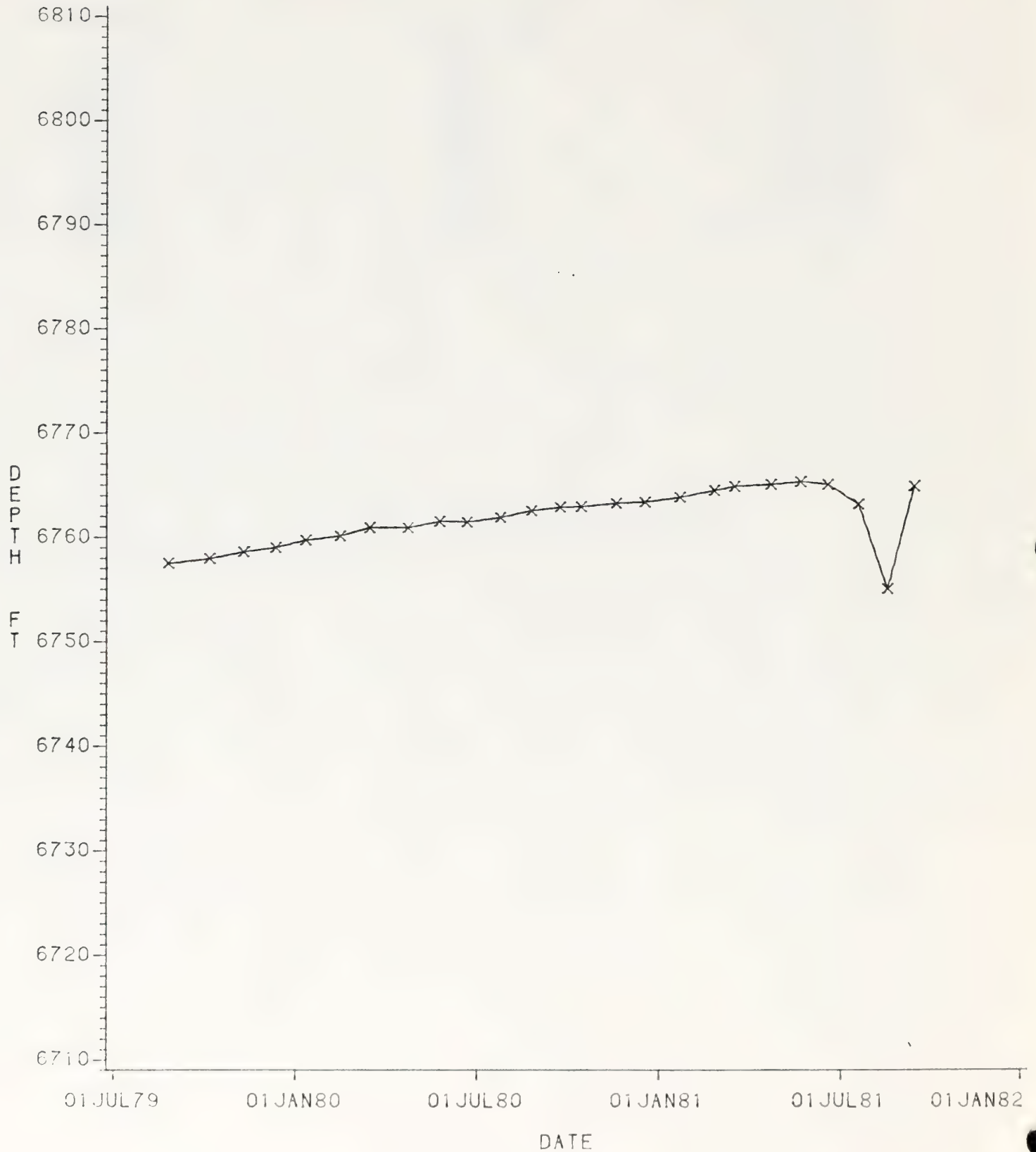
TABLE 2.2.1.4-5

PLOTS OF WAP LEVELS IN UPPER AQUIFER WELLS

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
TH75-5A	WX64	I-122
TH75-13A	WX65	I-123
TH75-18A	WX67	I-124
TH75-9A	WX69	I-125
CER RB-D-02	WX71	I-126
TH75-15A	WX72	I-127
UNION 8-1	WX73	I-128
TH-5	WX75	I-129

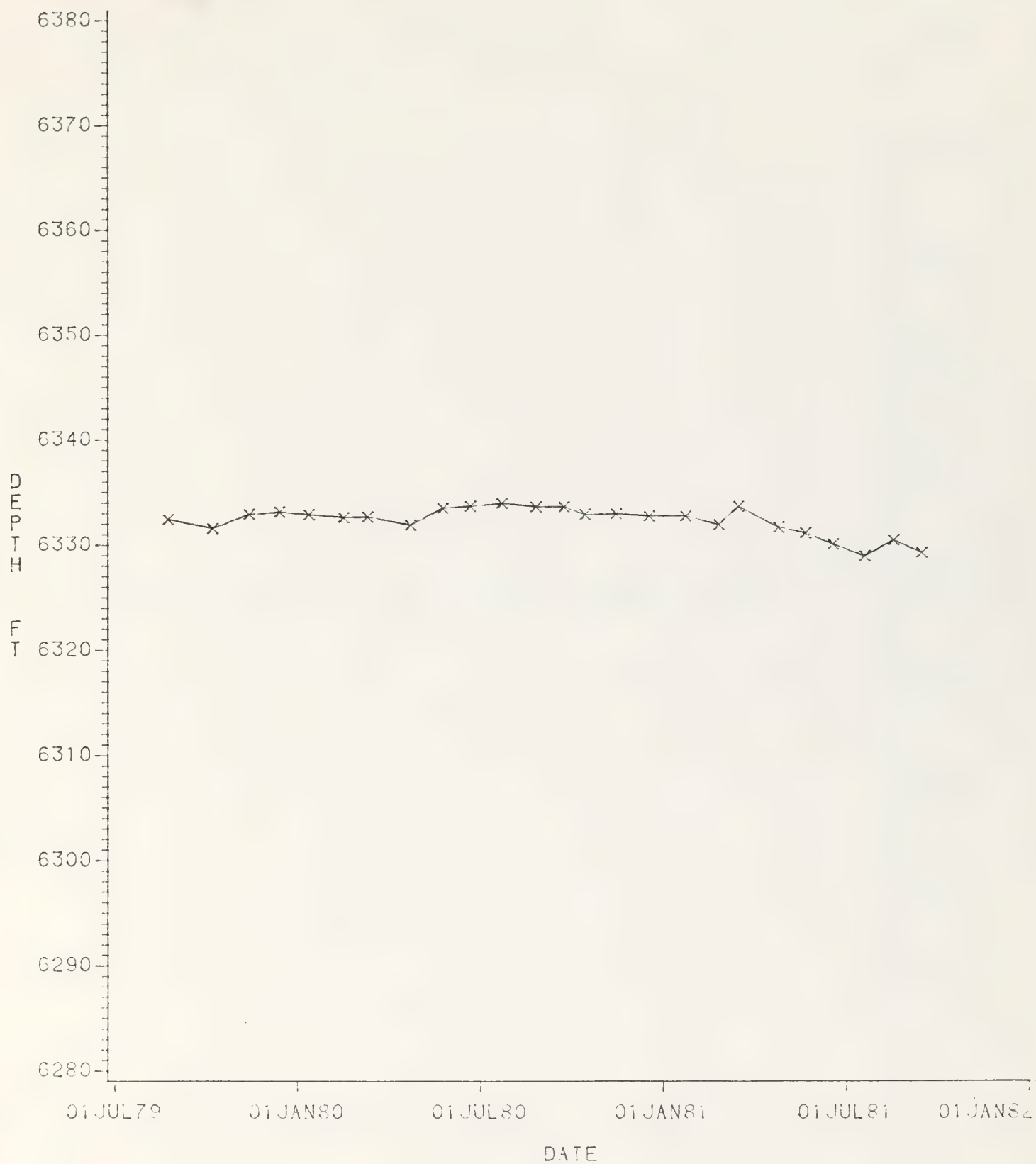
NORTH OF PICEANCE CREEK

LOC=WX64



WEST--NORTHWEST OF TRACT

LOC=WX65

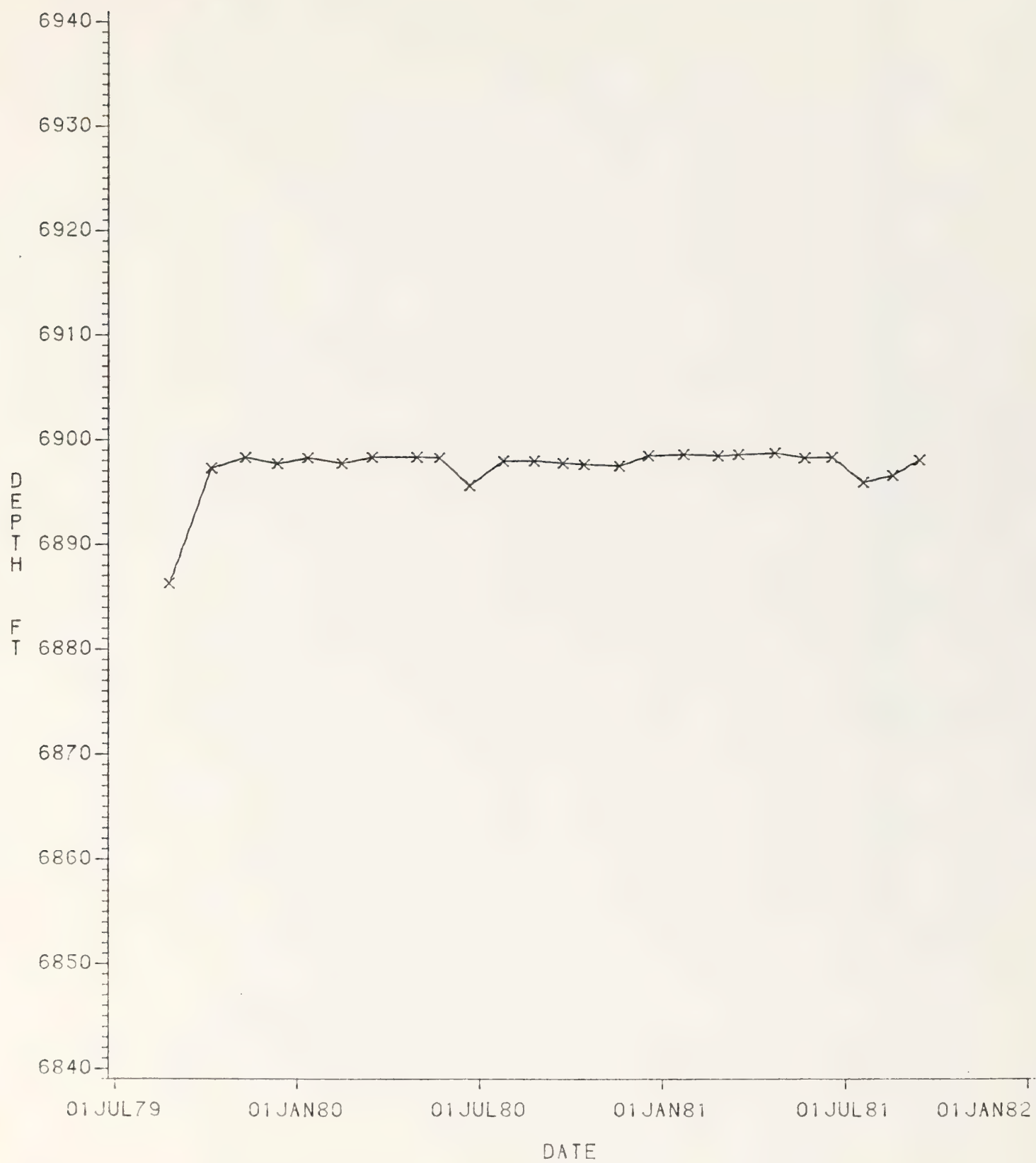


LOC=WX67



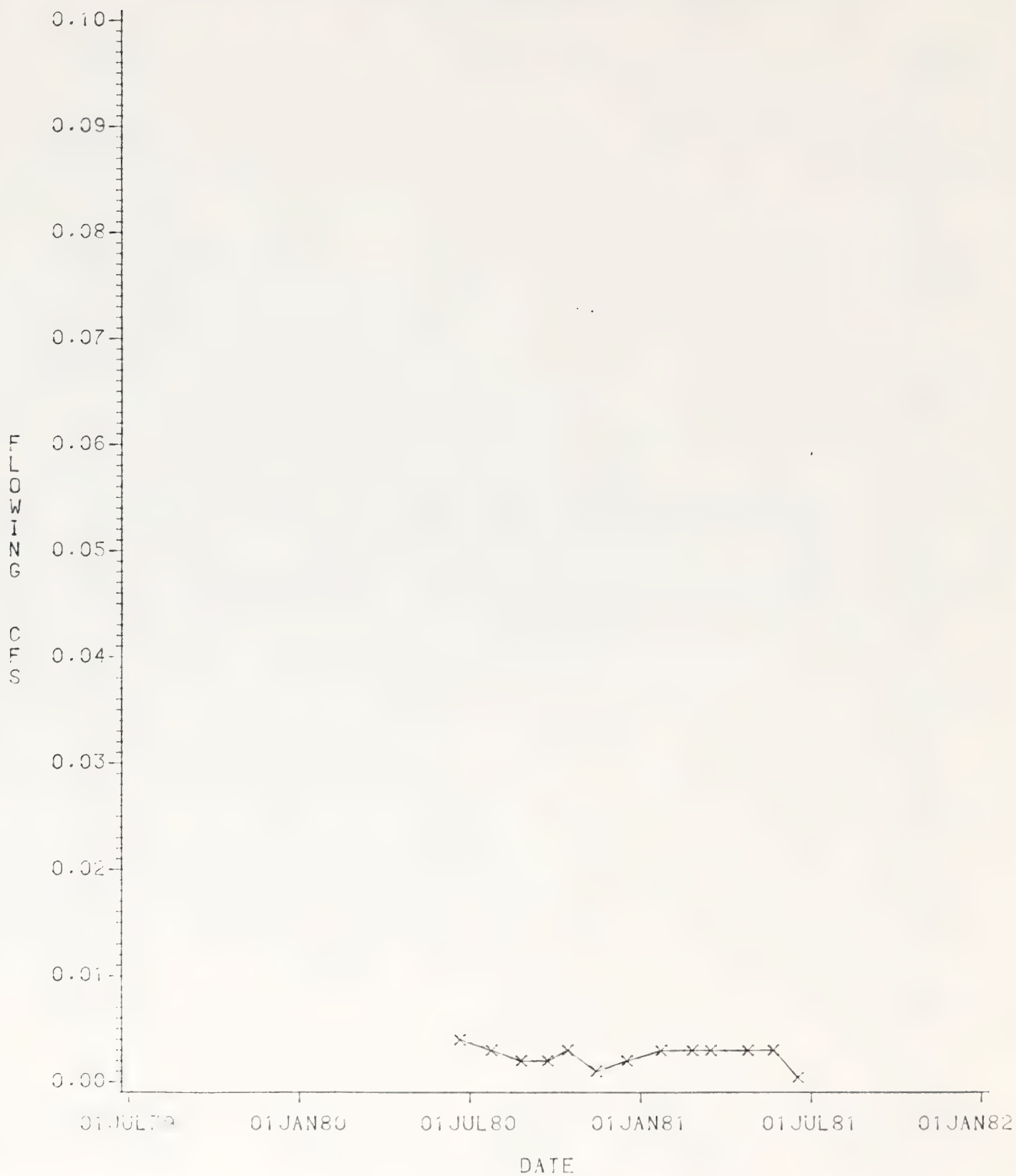
NORTH OF PICEANCE CREEK

LOC=WX69



SOUTHWEST--WEST OF TRACT

LOC=WX71



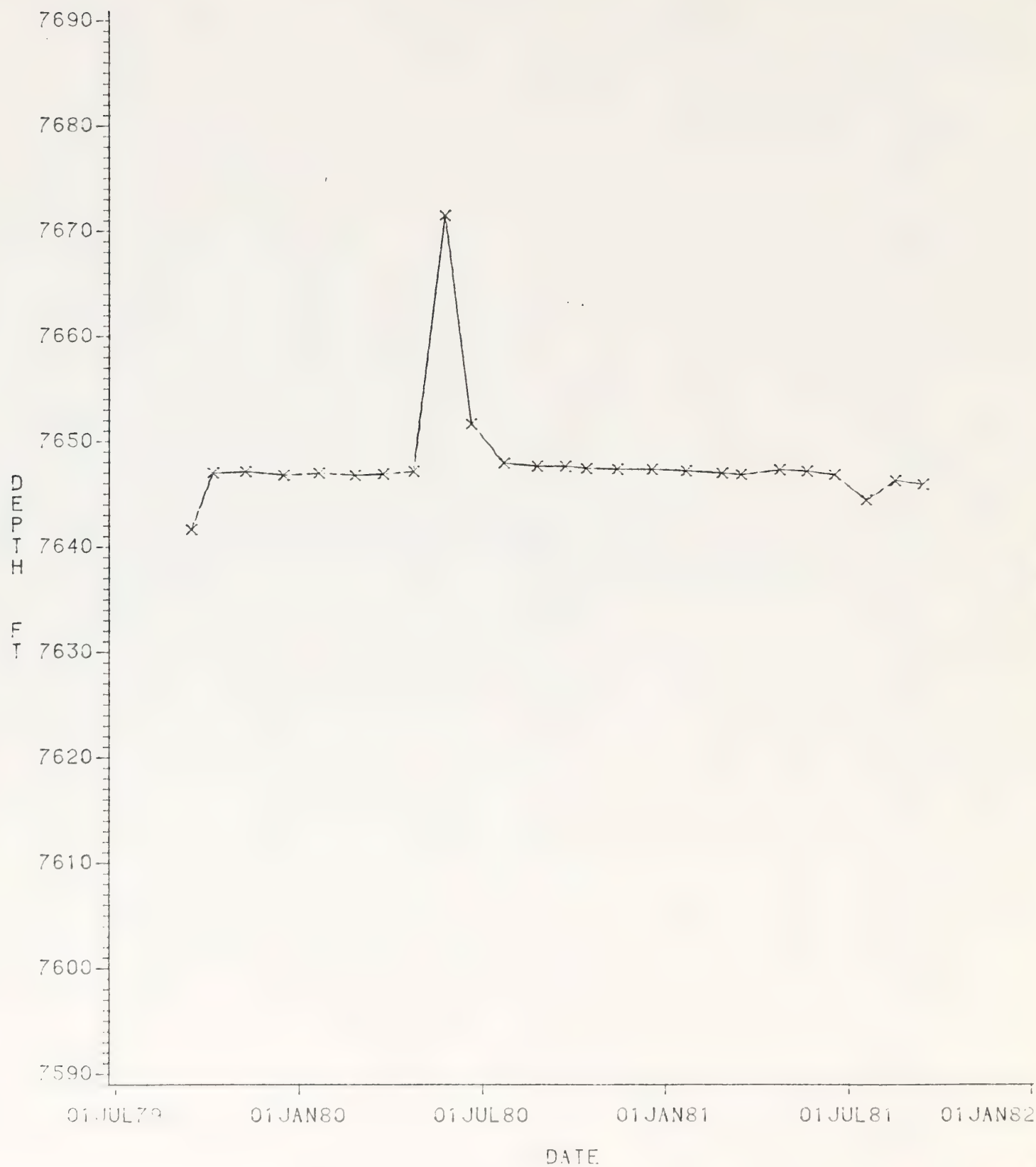
SOUTHWEST--WEST OF TRACT

LOC=WX72



SOUTHEAST-SOUTH OF TRACT

LOC=WX73



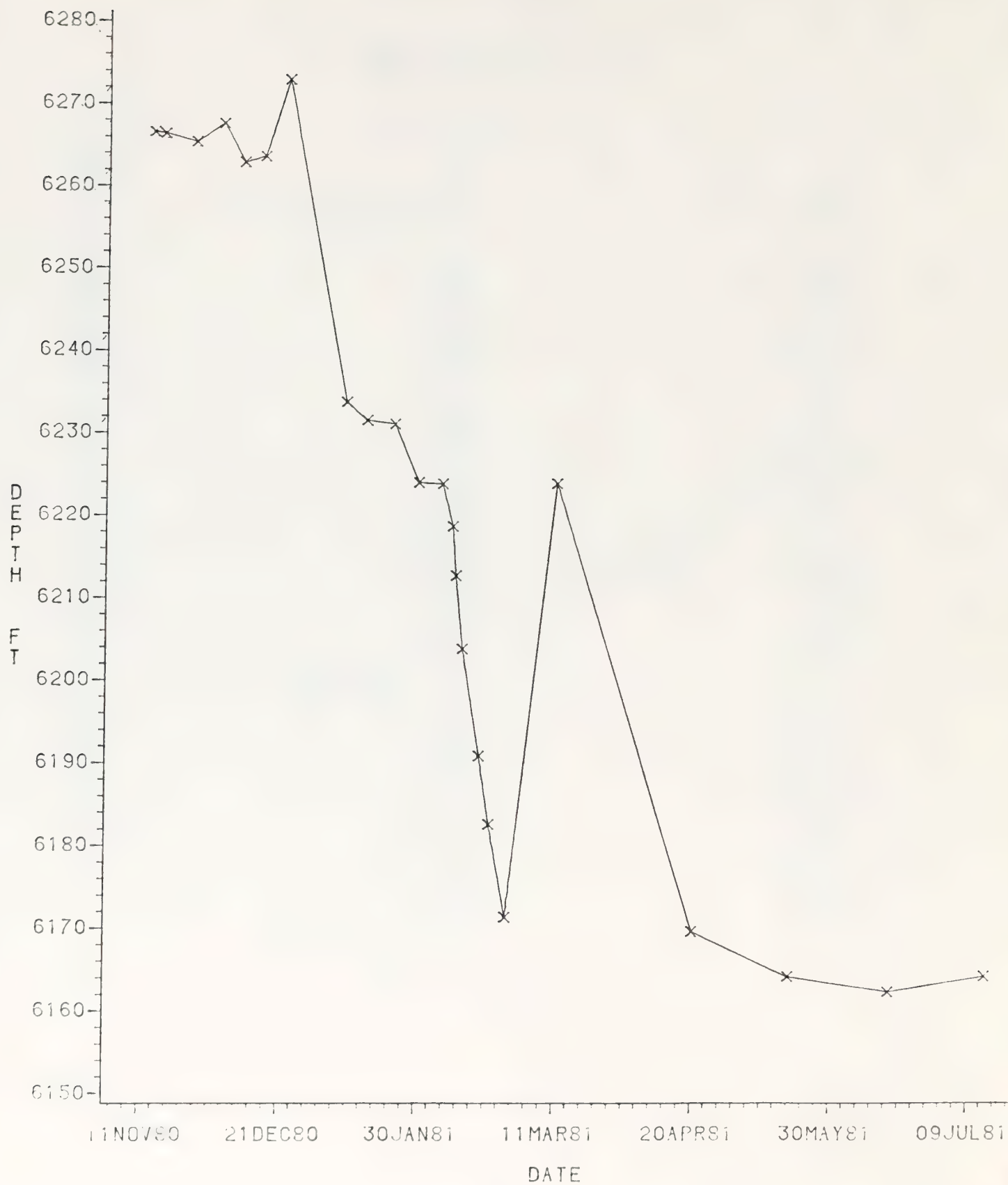
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TABLE 2.2.1.4-6
TIME SERIES PLOTS OF WELL LEVELS
IN UPC₁ & UPC₂ ZONES

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
CB-1	WD01	I-132
CB-2	WD02	I-133
SG-10A-2	WD10 (Recompleted, new code WE51)	I-134
SG-1A-2	WD11	I-135
SG-1-2	WD12	I-136
14X-7-1	WD14	I-137
14X-7-2	WD15	I-138
SG-17-3	WD17	I-139
SG-18A-3	WD18	I-140
SG-19	WD19	I-141
SG-20-3	WD20	I-142
SG-21-4	WD21	I-143
AT-1B-3	WD41	I-144
SG-10A-Annulus	WD51	I-145
SG-11-3	WD52	I-146
SG-17A	WD57	I-147
SG-6-3	WD61	I-148
SG-10	WD90	I-149
SG-9-3	WD91	I-150
CB-3	WE03	I-151
CB-4	WE04	I-152
SG-10A-2	WE10 (Recompleted, new code WG51)	I-153
SG-1A-1	WE11	I-154
SG-17-2	WE17	I-155
SG-18A-2	WE18	I-156
SG-20-2	WE20	I-157
SG-21-3	WE21	I-158
AT1-2	WE41	I-159
SG-10A-2	WE51	I-160
SG-11-2	WE52	I-161
SG-6-1	WE61	
SG-9-2	WE91	

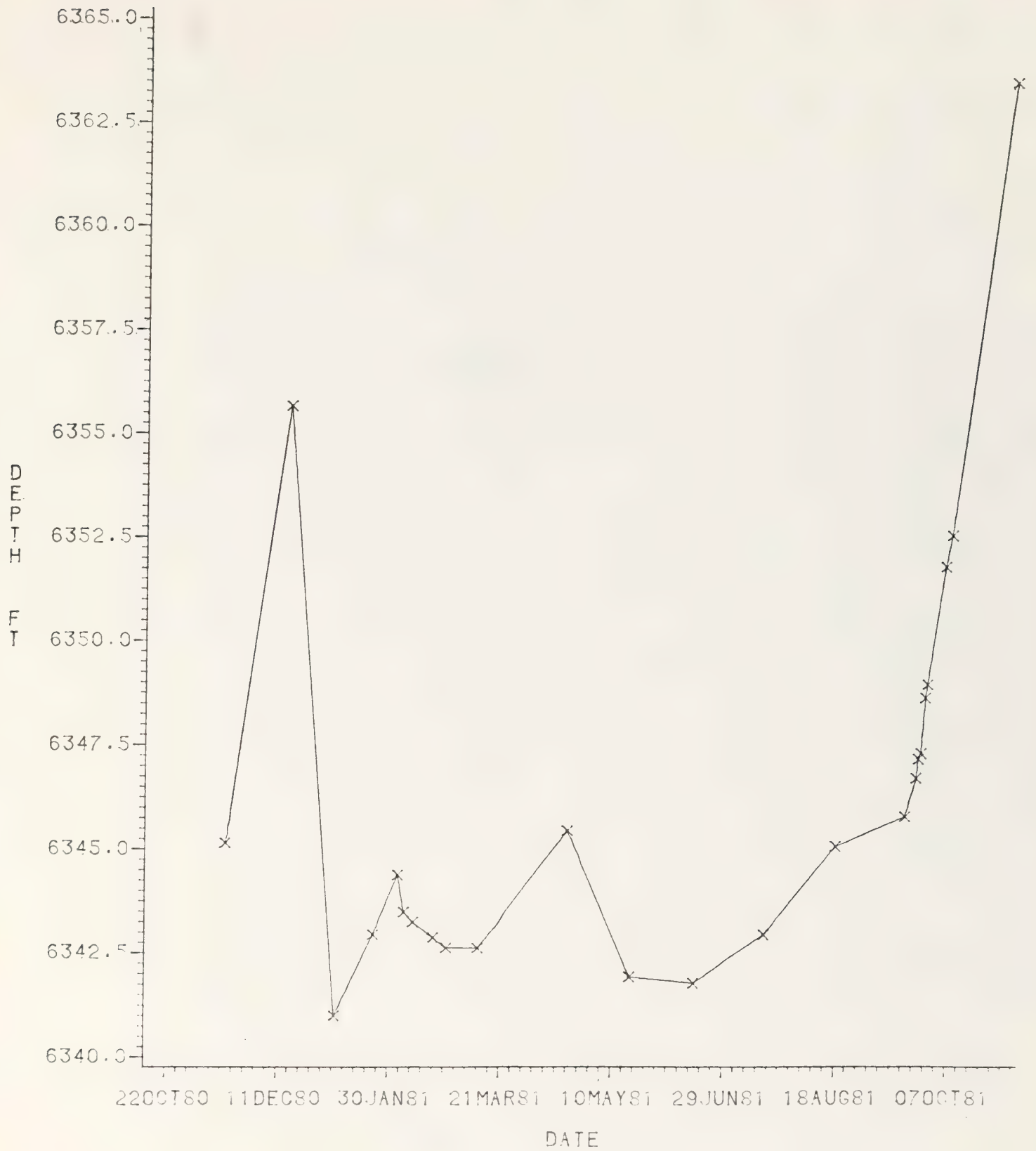
TIME SERIES FOR WELL LEVELS

LDCRWD01.



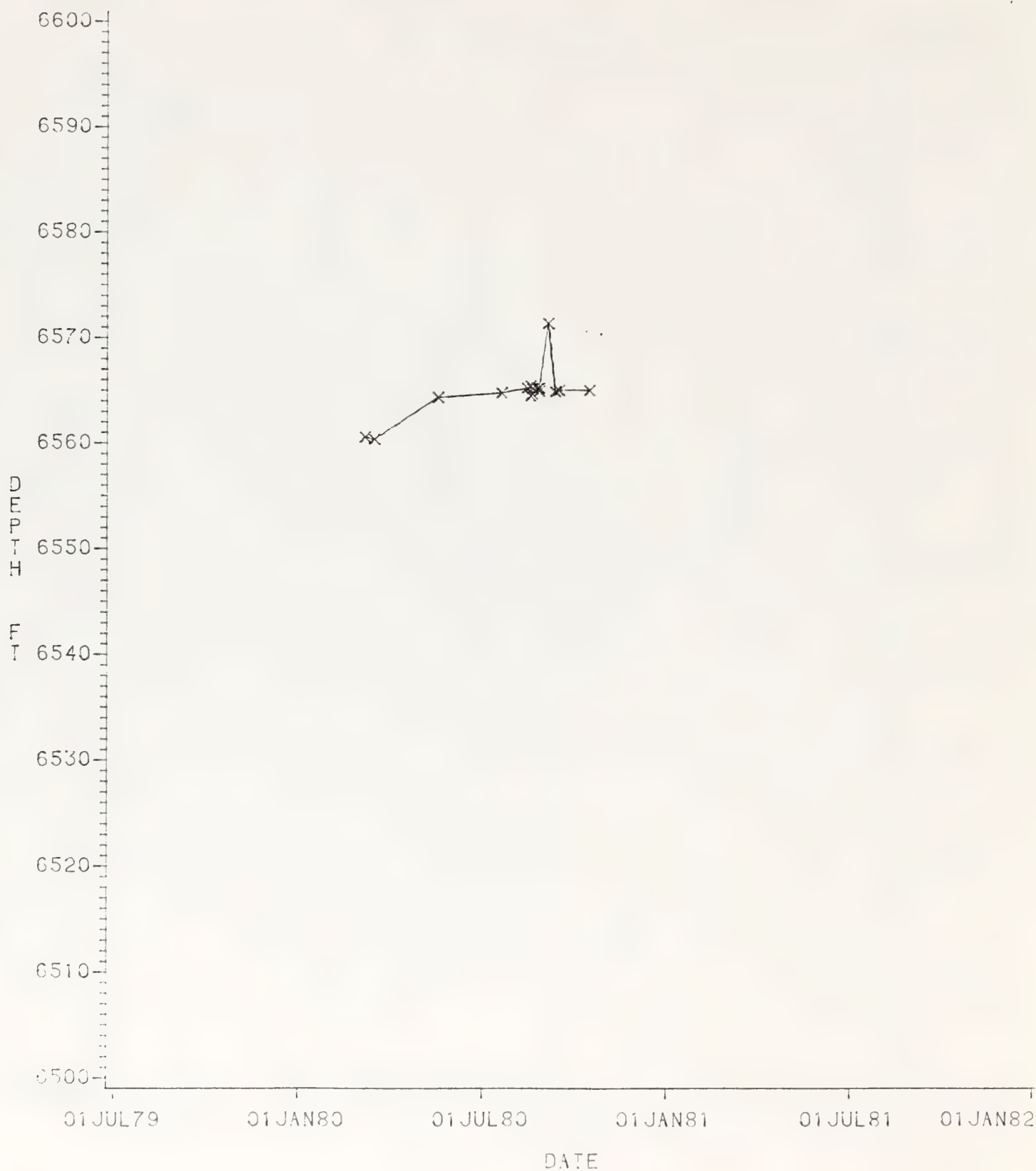
TIME SERIES FOR WELL LEVELS

LQC=WD02.



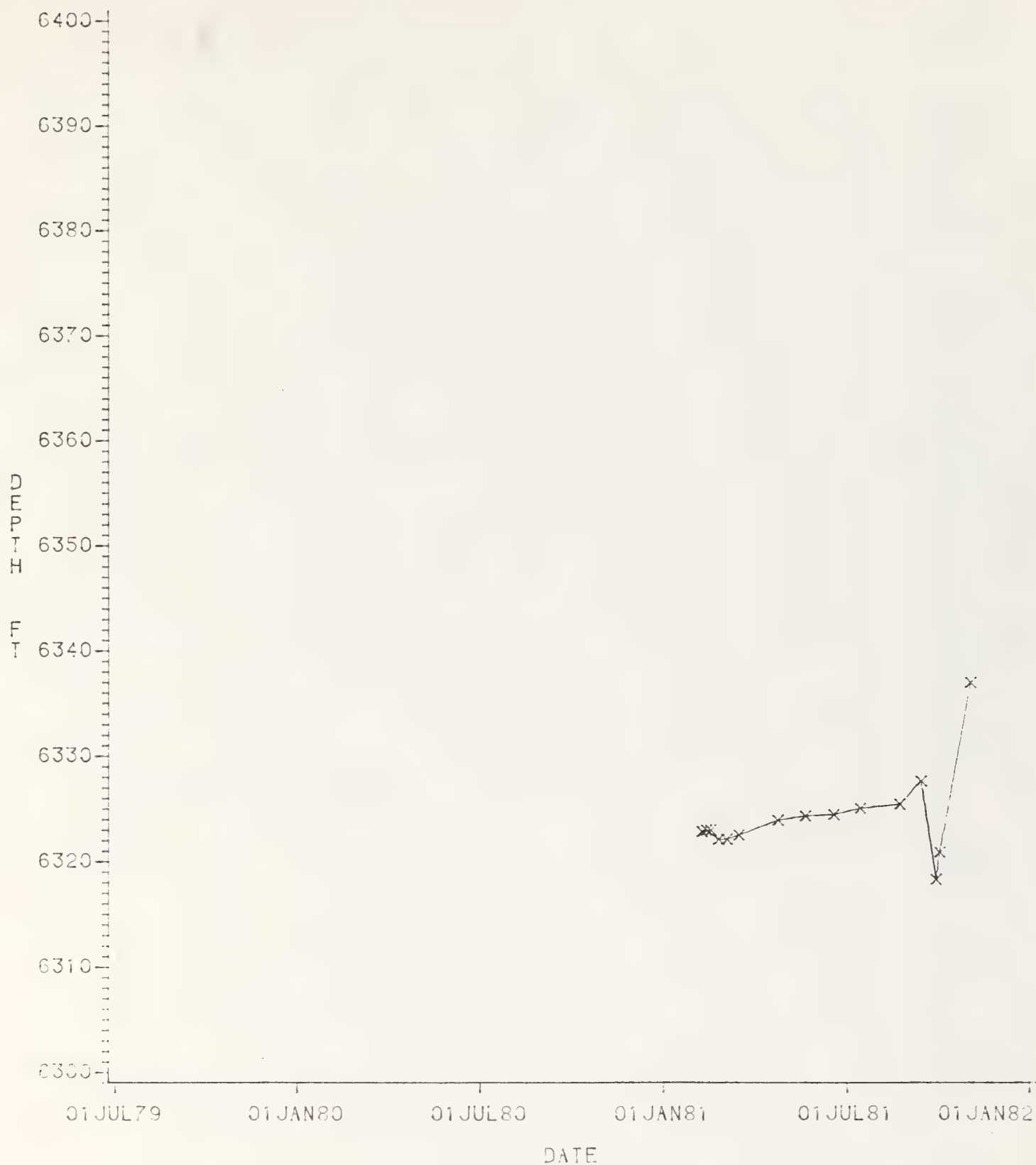
TIME SERIES FOR WELL LEVELS

LOC=WD10



TIME SERIES FOR WELL LEVELS

LOC=WD11



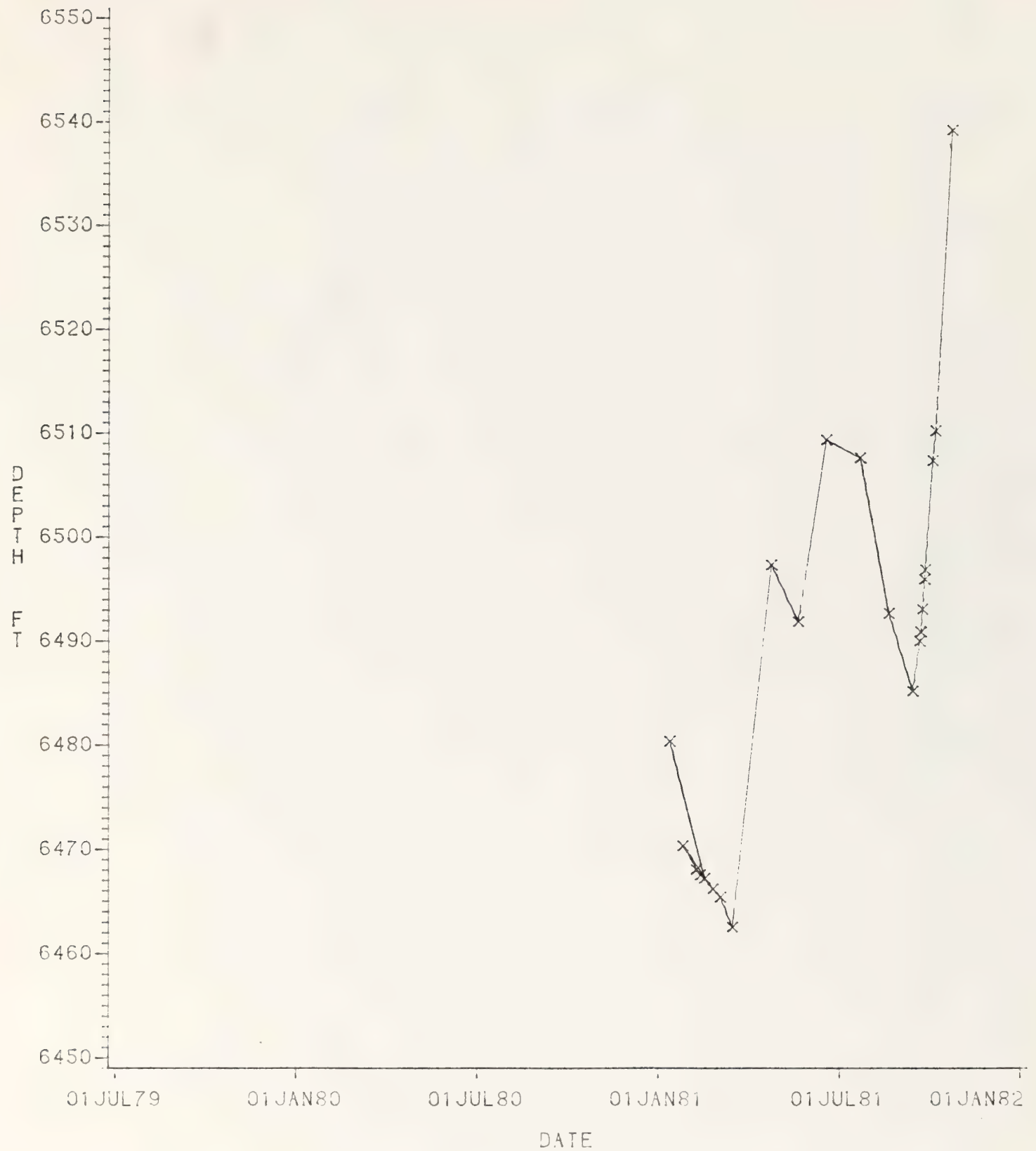
TIME SERIES FOR WELL LEVELS

LOC=WD12



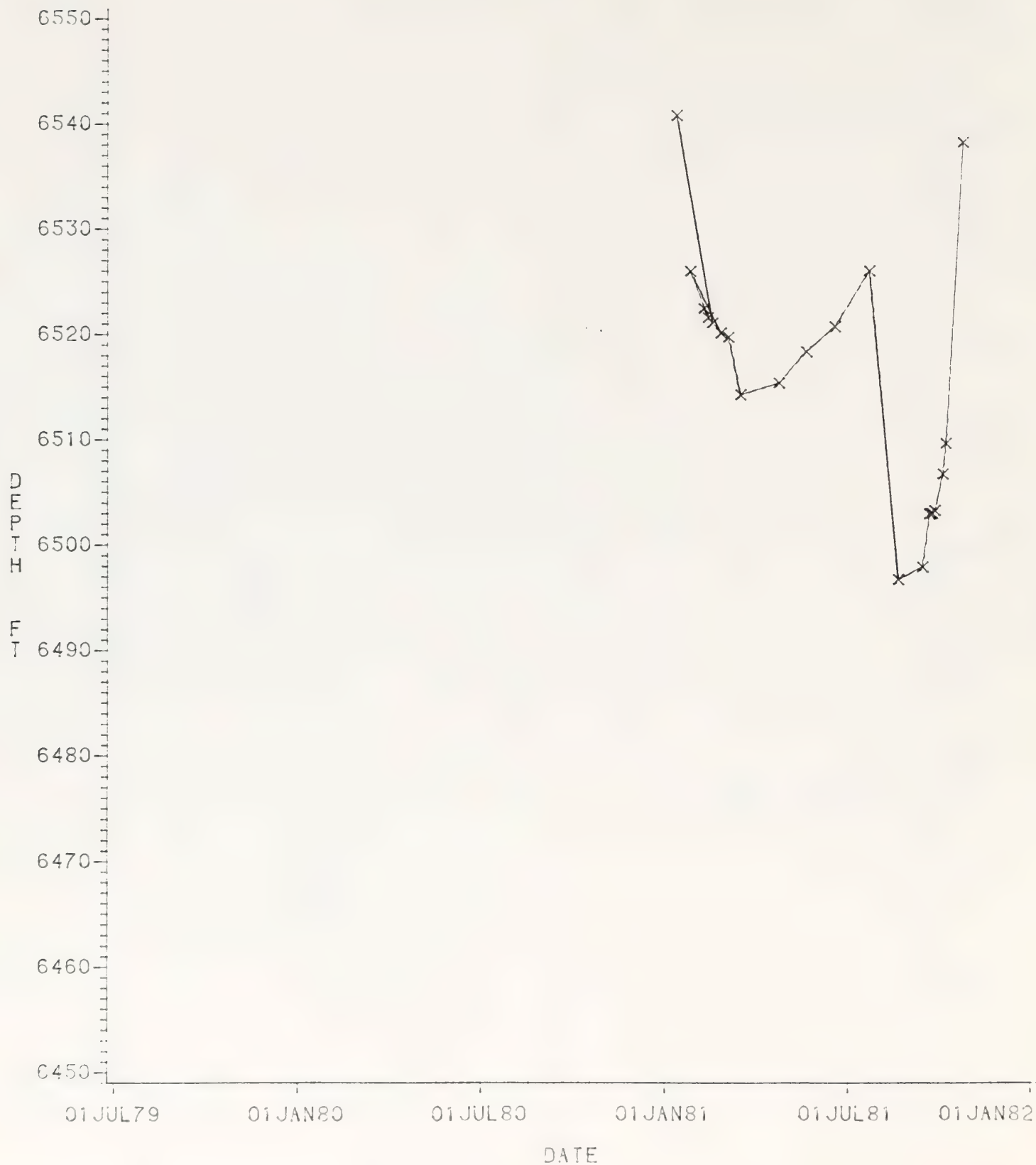
TIME SERIES FOR WELL LEVELS

LOC=WD14



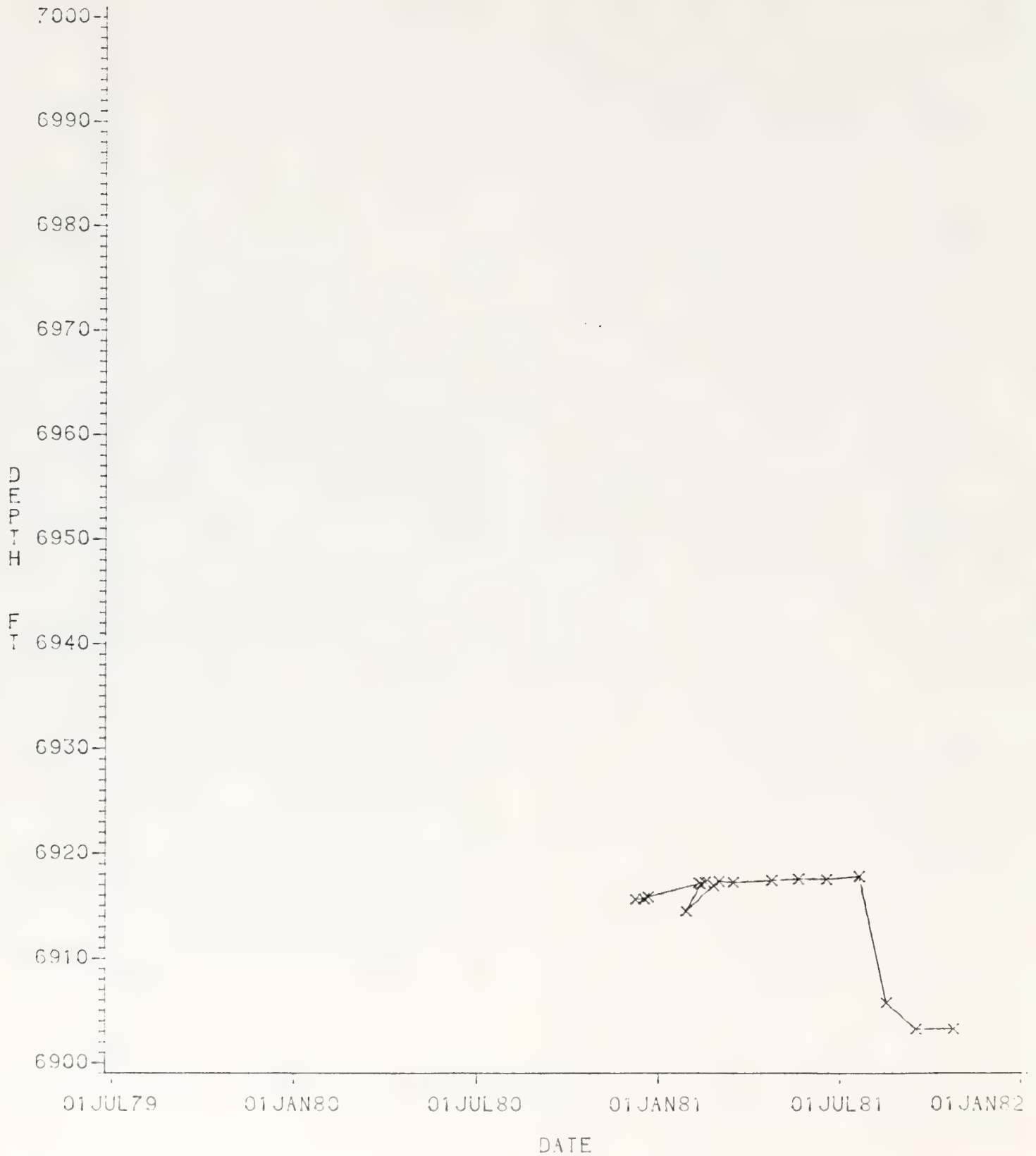
TIME SERIES FOR WELL LEVELS

LOC=WD15



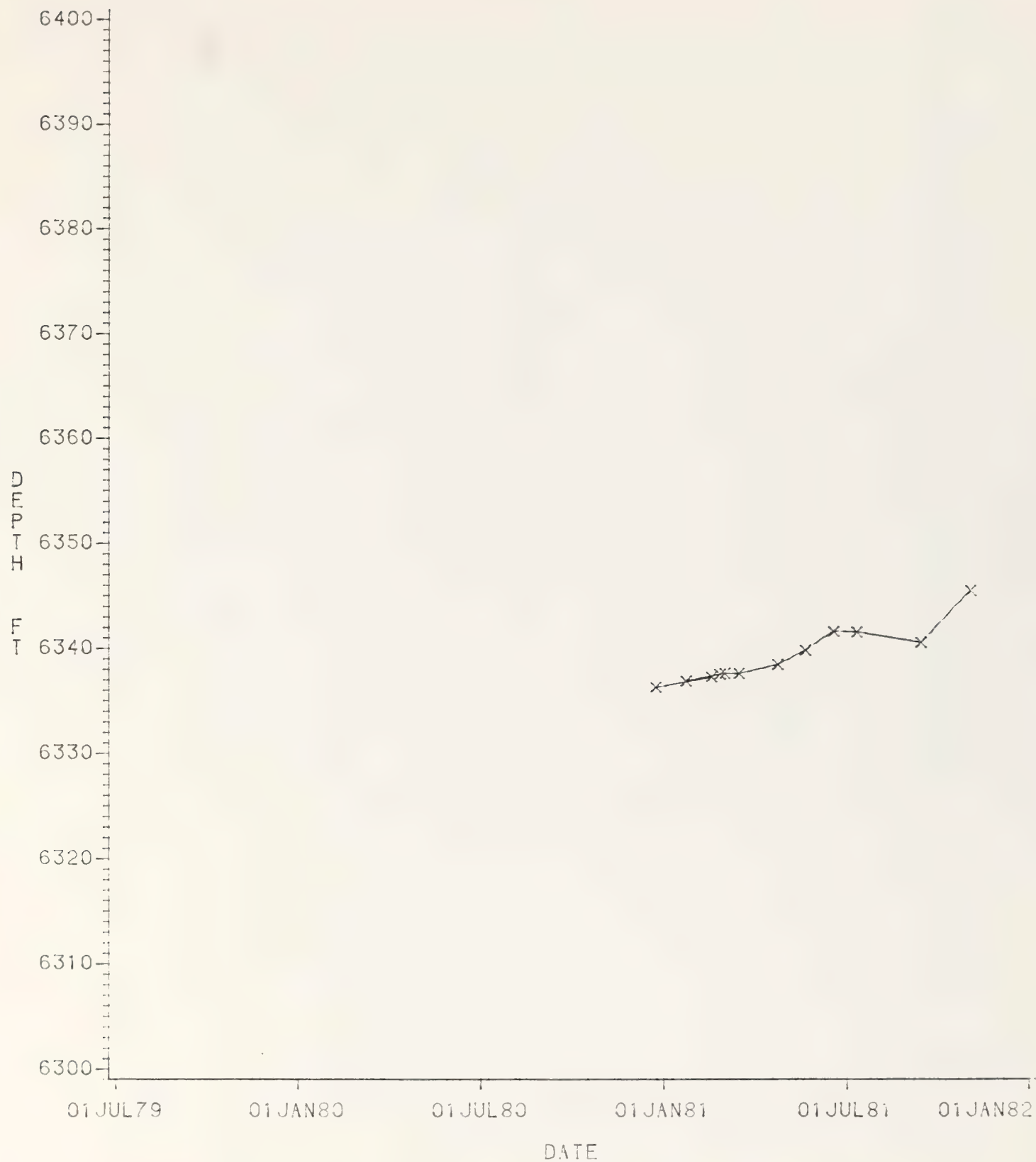
TIME SERIES FOR WELL LEVELS

LOC=WD18



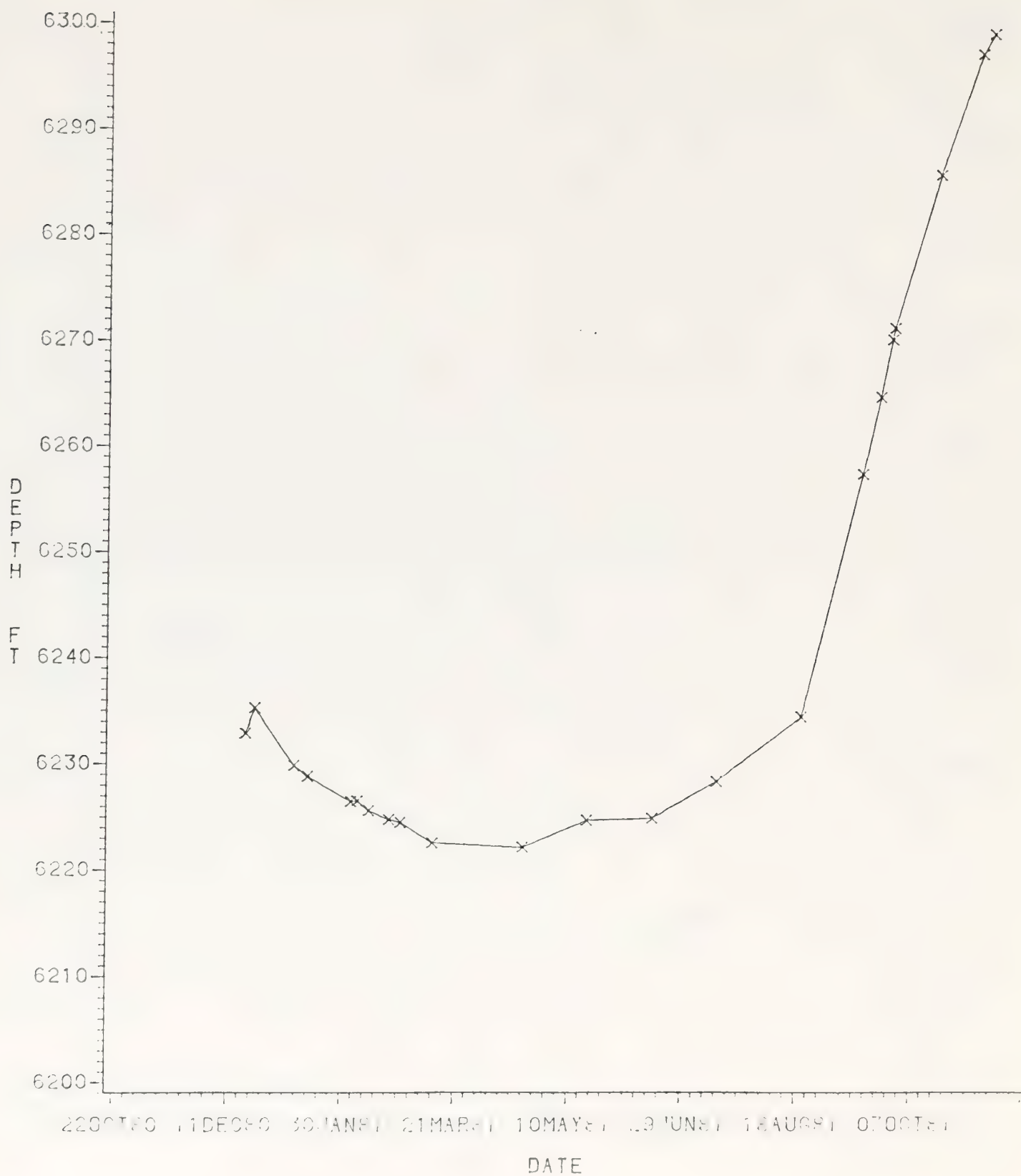
TIME SERIES FOR WELL LEVELS

LOC=WD19



TIME SERIES FOR WELL LEVELS

LOC=WD20



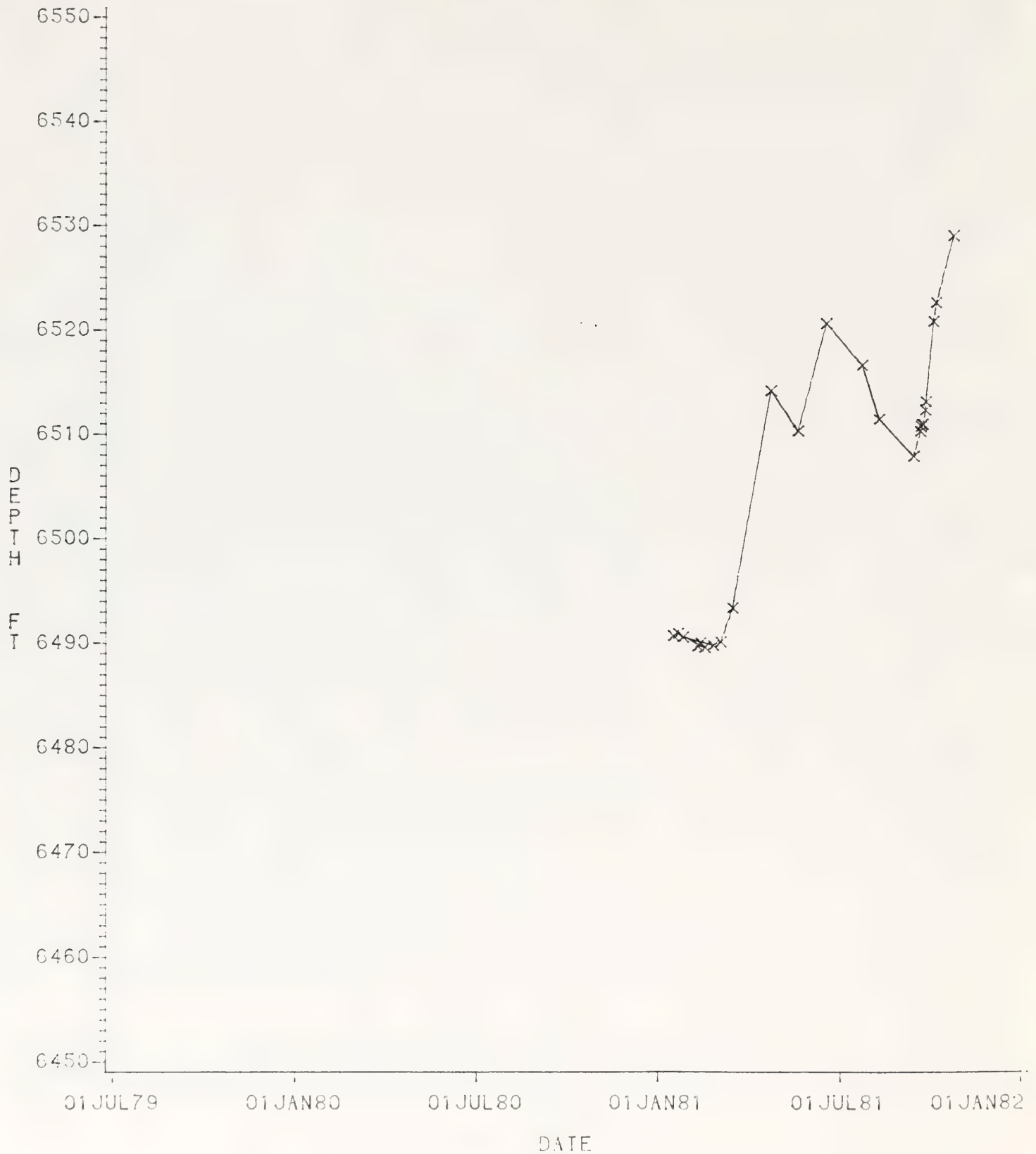
TIME SERIES FOR WELL LEVELS

LOC=WD21



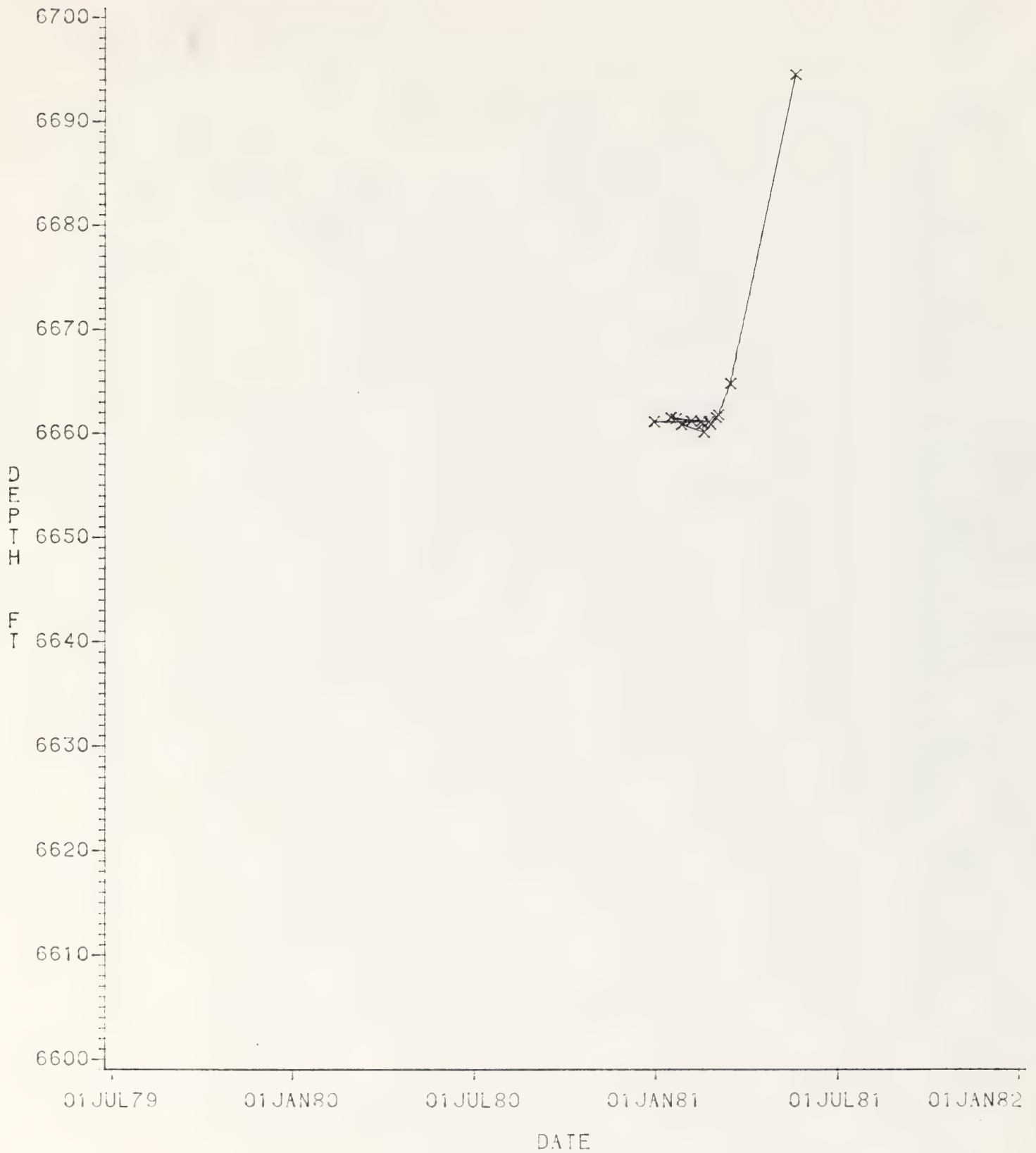
TIME SERIES FOR WELL LEVELS

LOC=WD41



TIME SERIES FOR WELL LEVELS

LOC=WD51



TIME SERIES FOR WELL LEVELS

LOC=WD52



TIME SERIES FOR WELL LEVELS

LDC=WD57



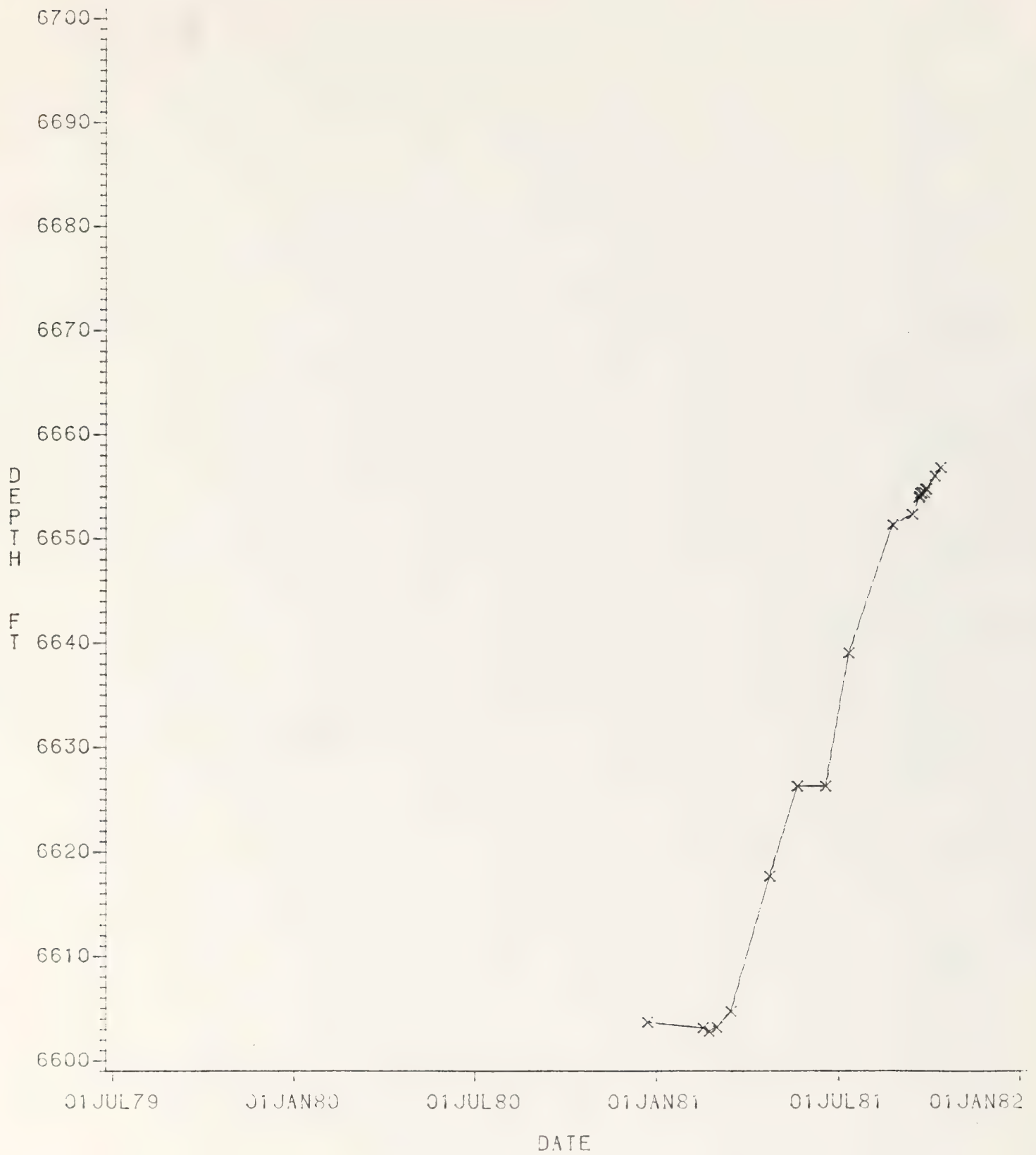
TIME SERIES FOR WELL LEVELS

LDC=WD61



TIME SERIES FOR WELL LEVELS

LOCARD90



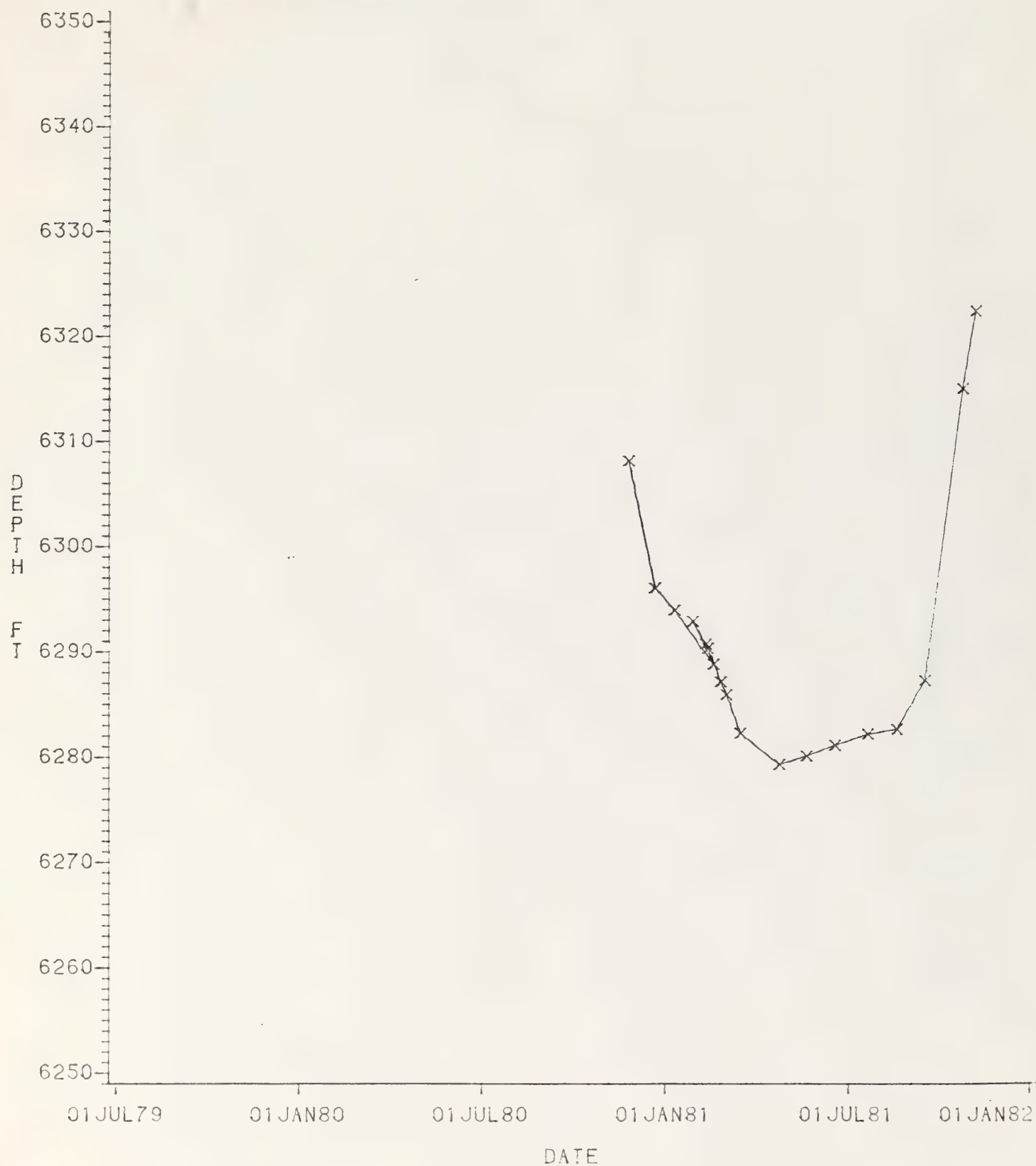
TIME SERIES FOR WELL LEVELS

LQC=WD91



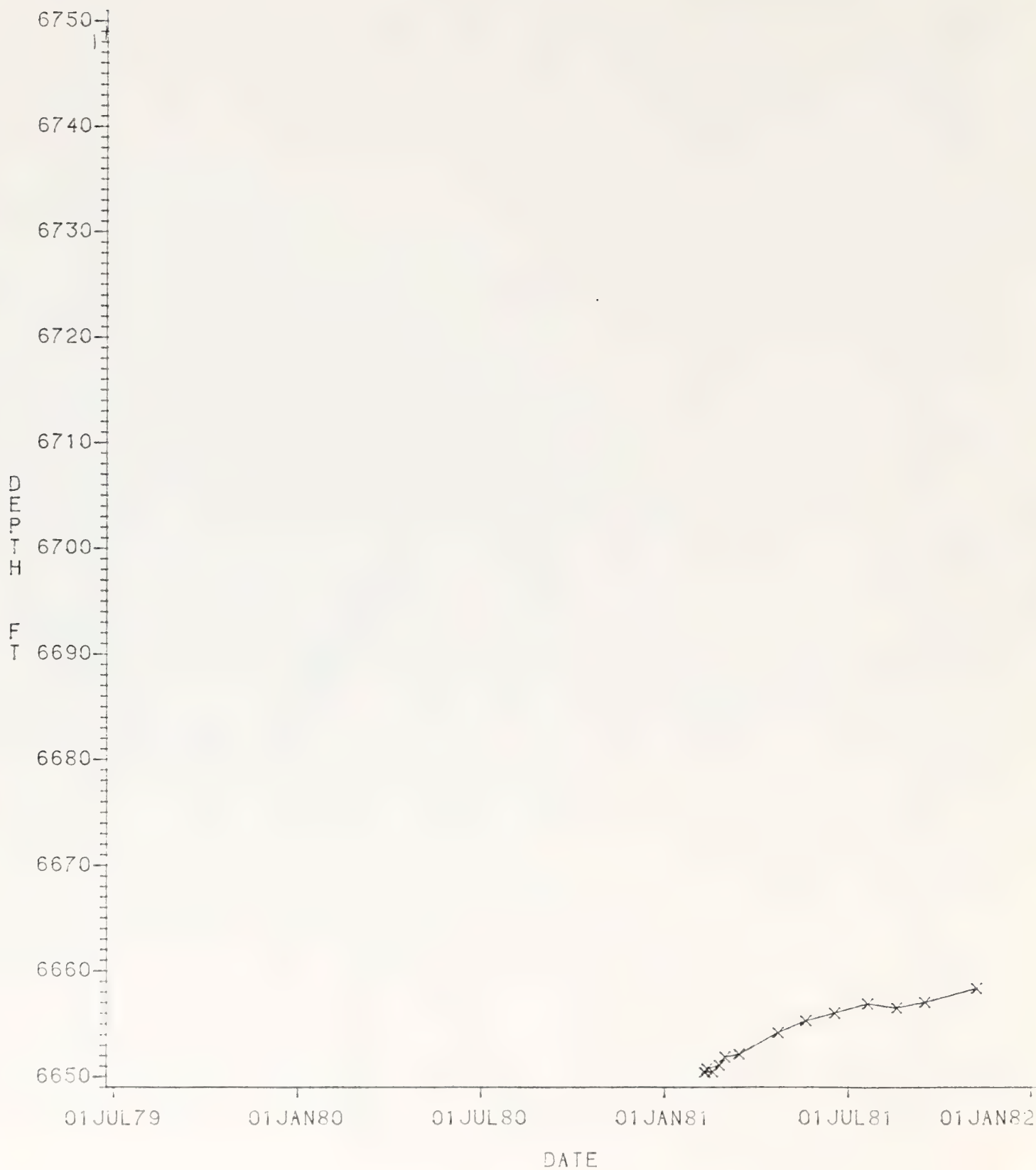
TIME SERIES FOR WELL LEVELS

LOC=WE03



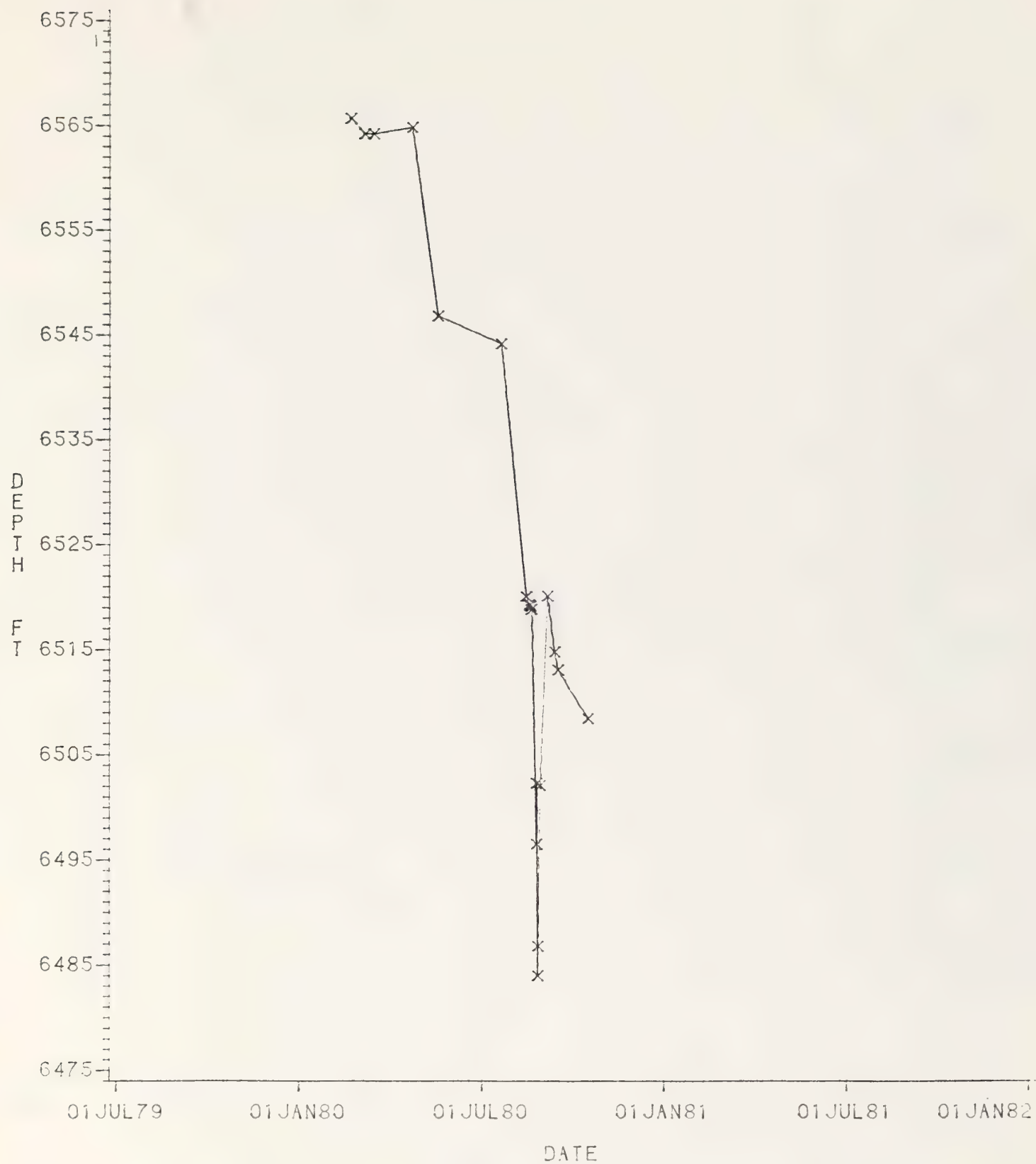
TIME SERIES FOR WELL LEVELS

LOC=WE04



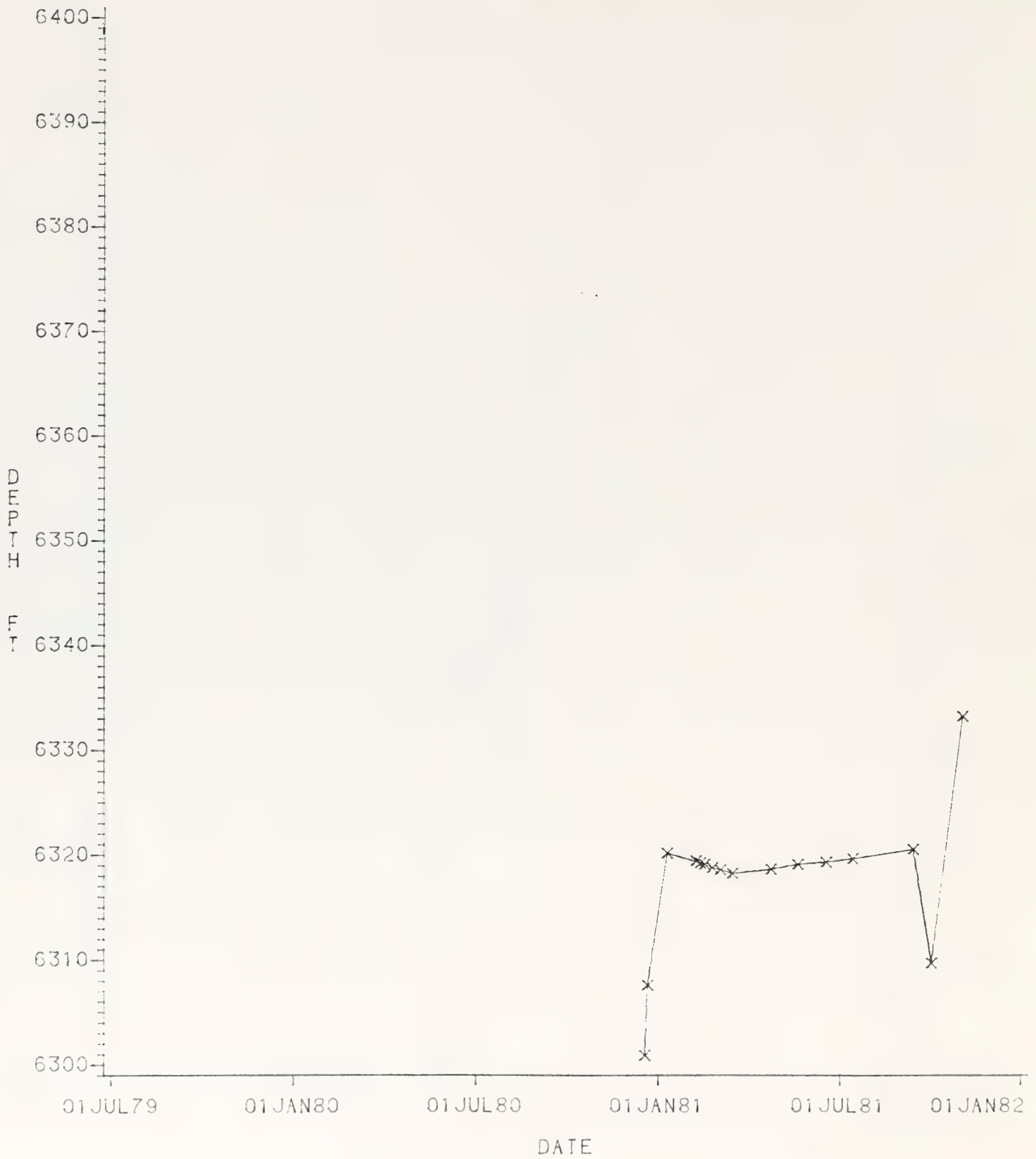
TIME SERIES FOR WELL LEVELS

LOC=WE10



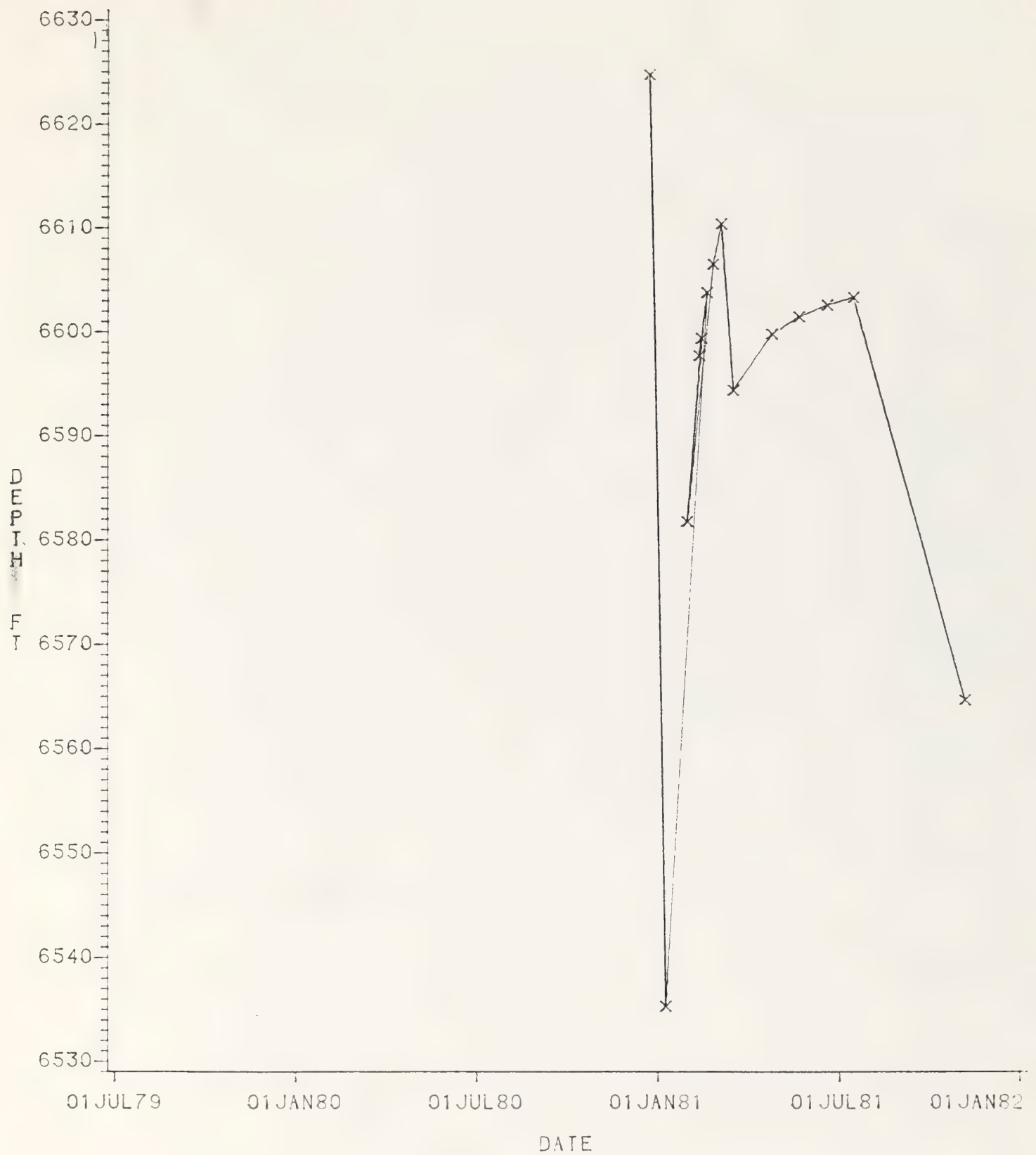
TIME SERIES FOR WELL LEVELS

LOC=WE11.



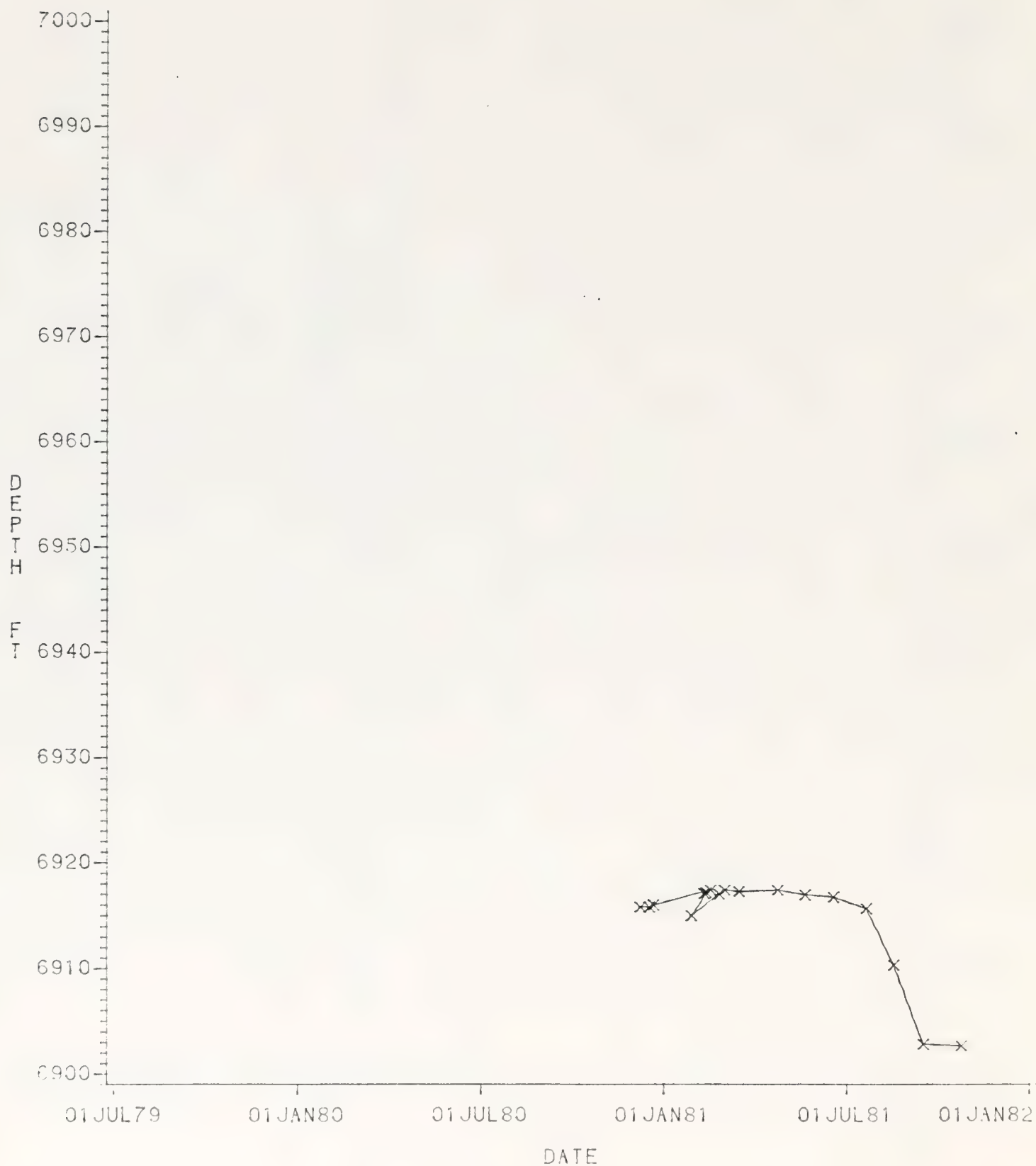
TIME SERIES WELL LEVELS

LOC=WE17



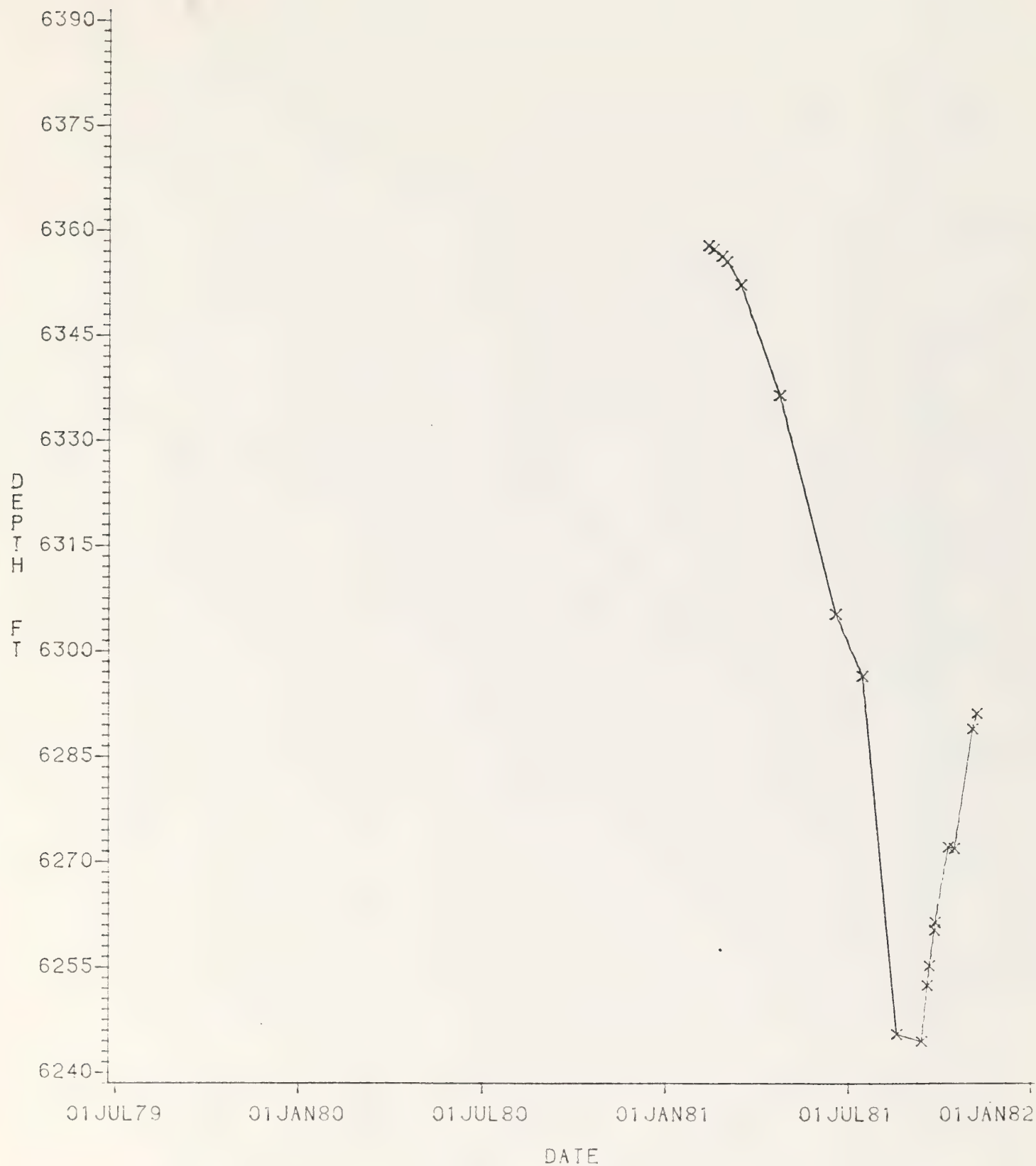
TIME SERIES WELL LEVELS

LOC=WE18



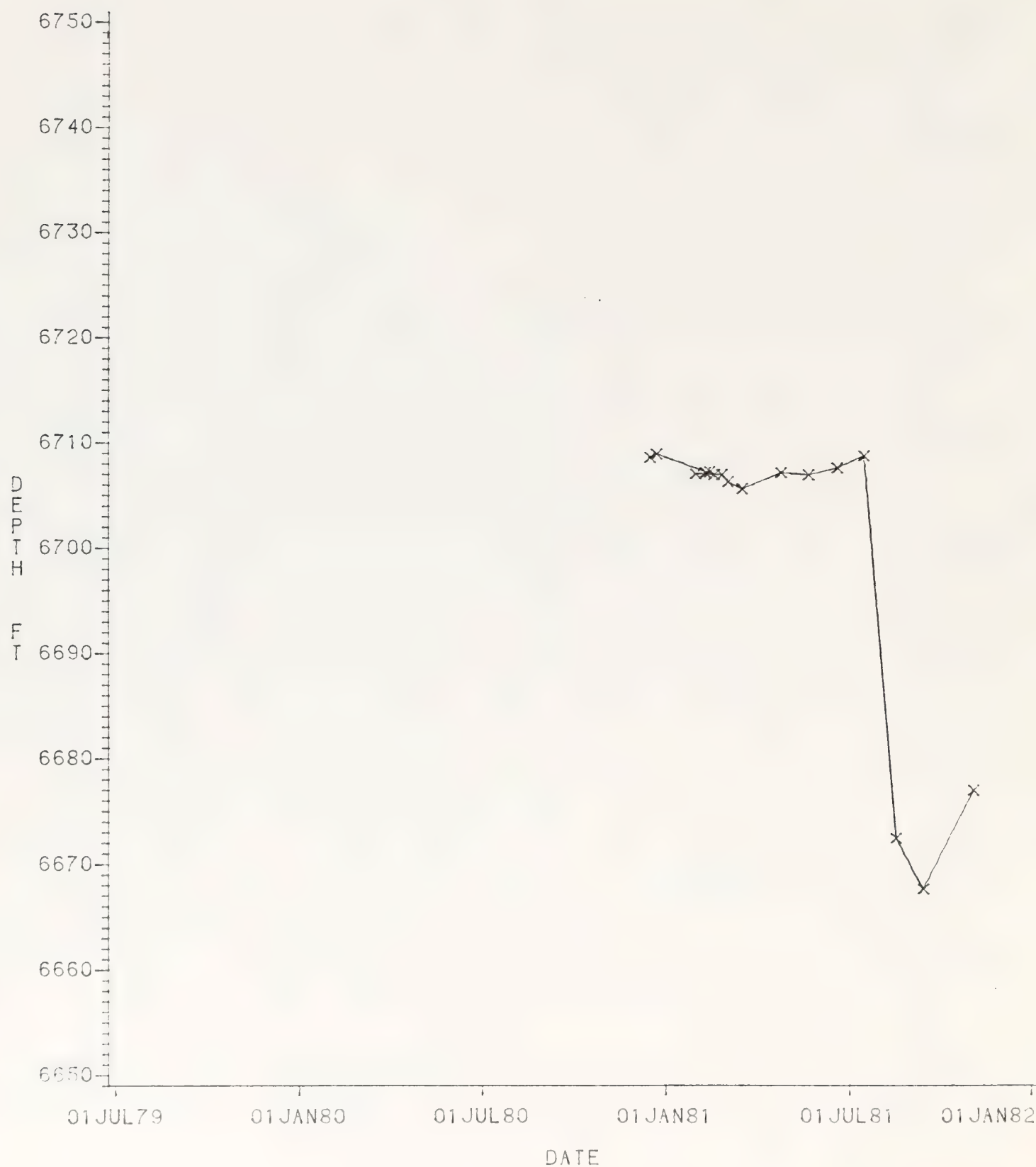
TIME SERIES WELL LEVELS

LOC=WE20



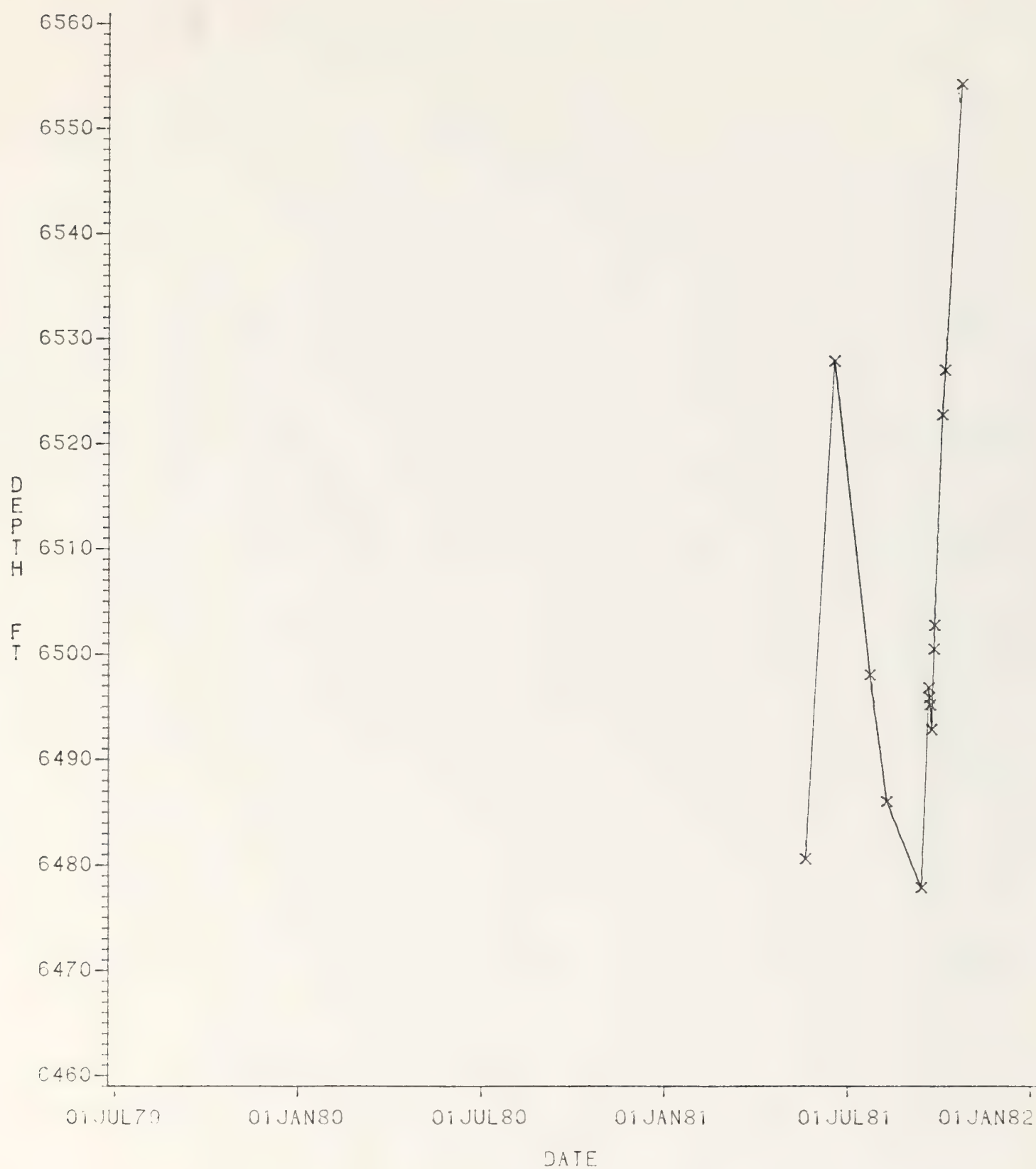
TIME SERIES WELL LEVELS

LOC=WE21



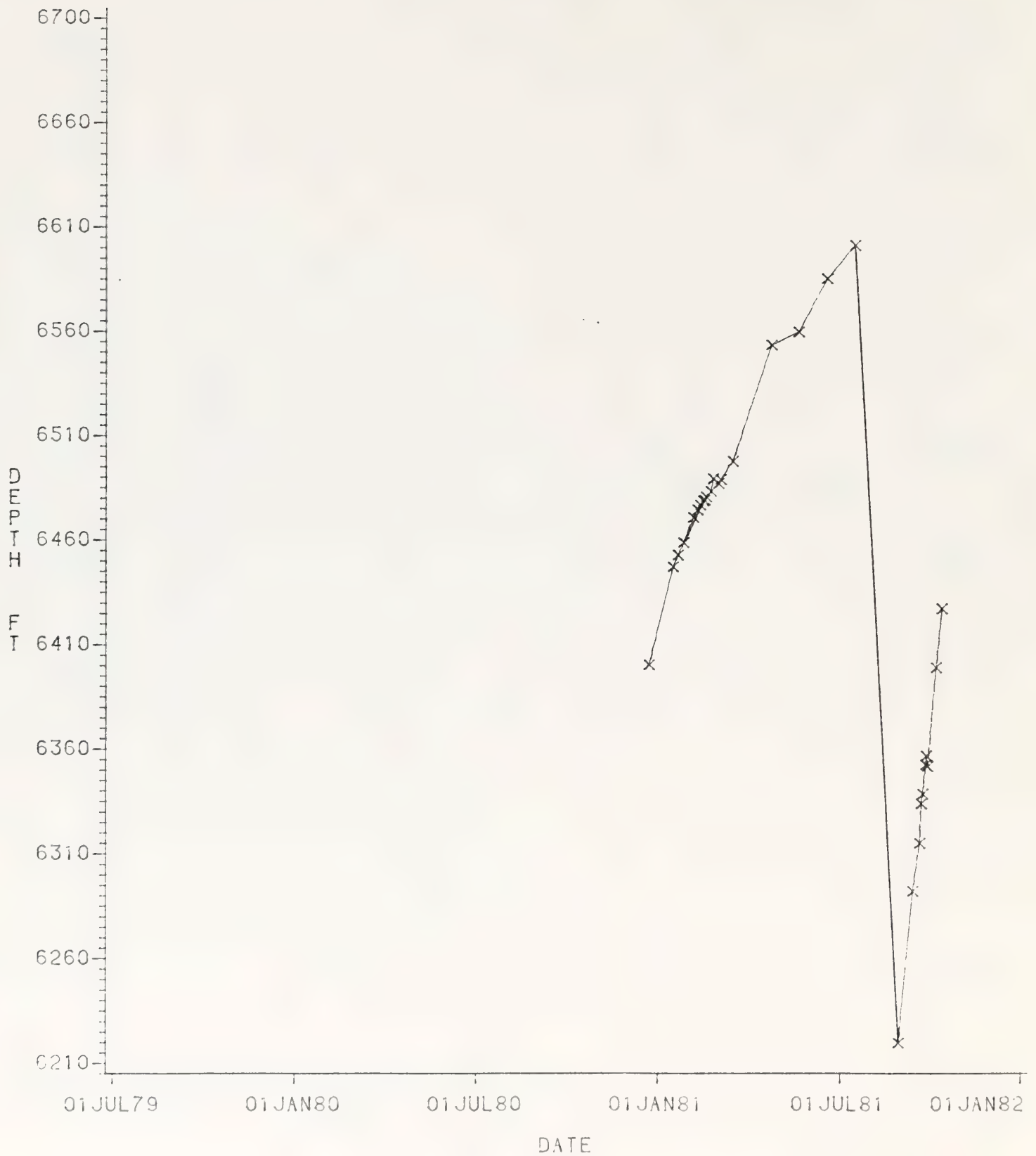
TIME SERIES WELL LEVELS

LOC=WE41



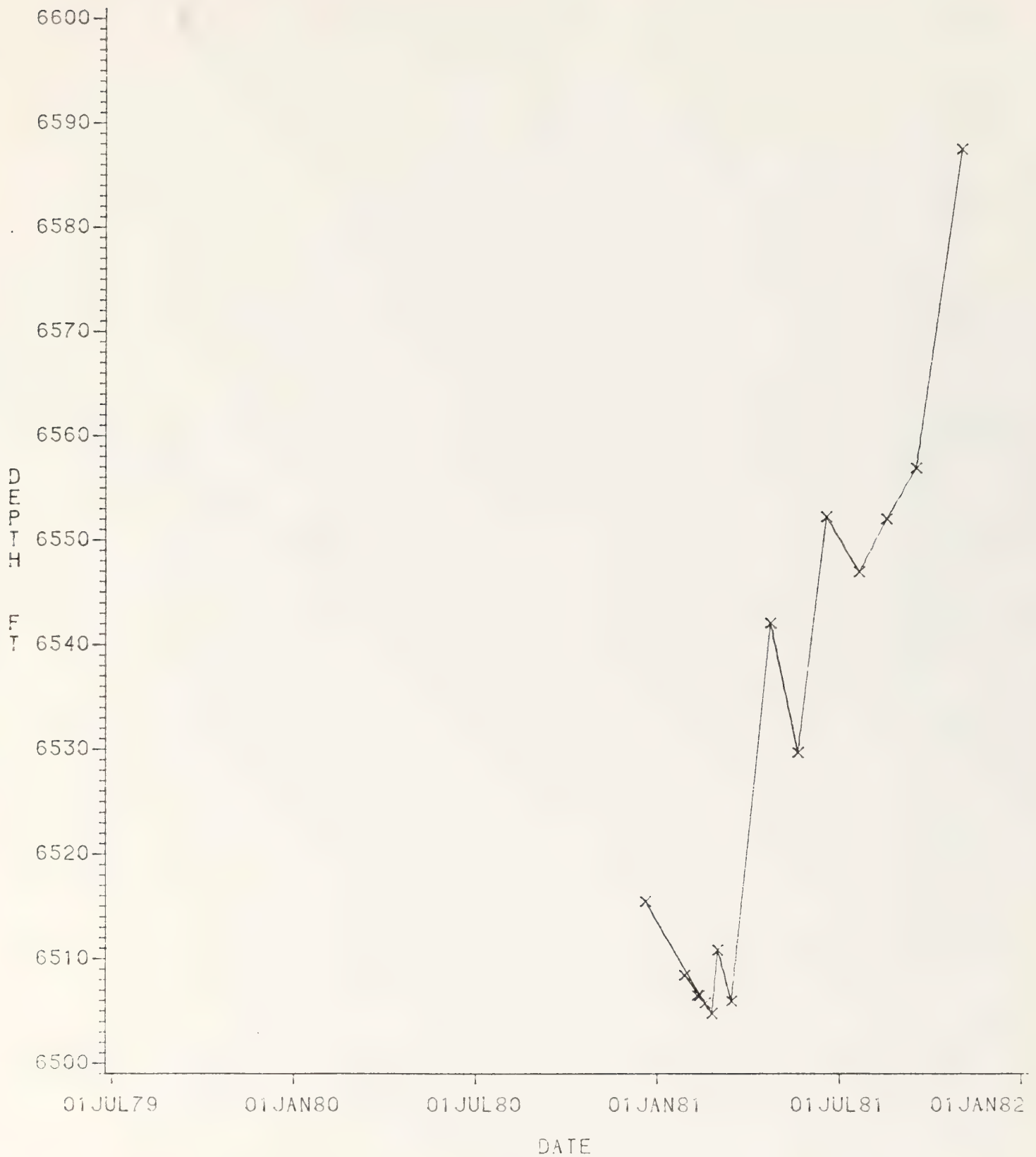
TIME SERIES WELL LEVELS

LOC=WE51



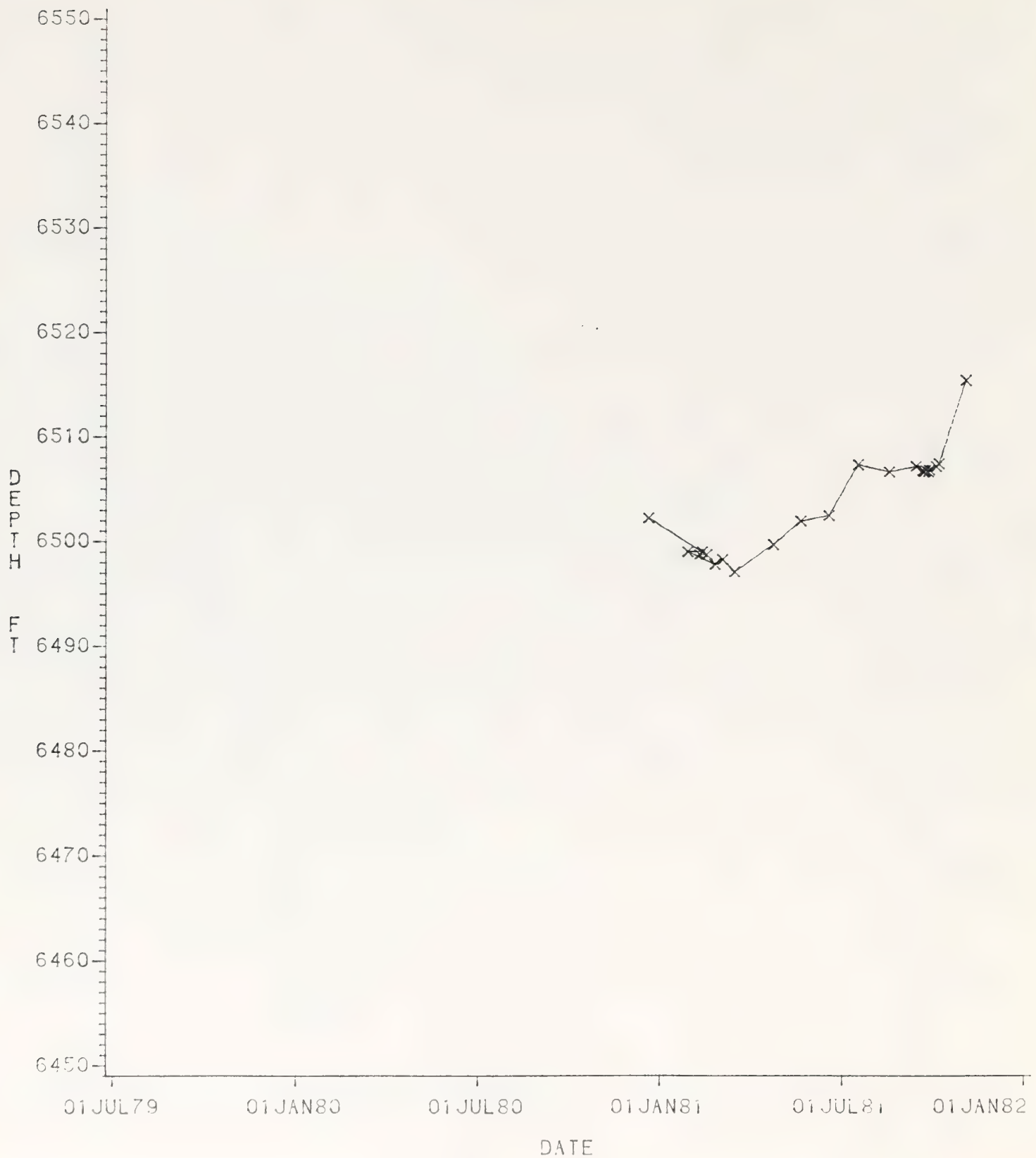
TIME SERIES WELL LEVELS

LOC=WE52



TIME SERIES WELL LEVELS

LOC=WE61



TIME SERIES WELL LEVELS

LOC=WE91

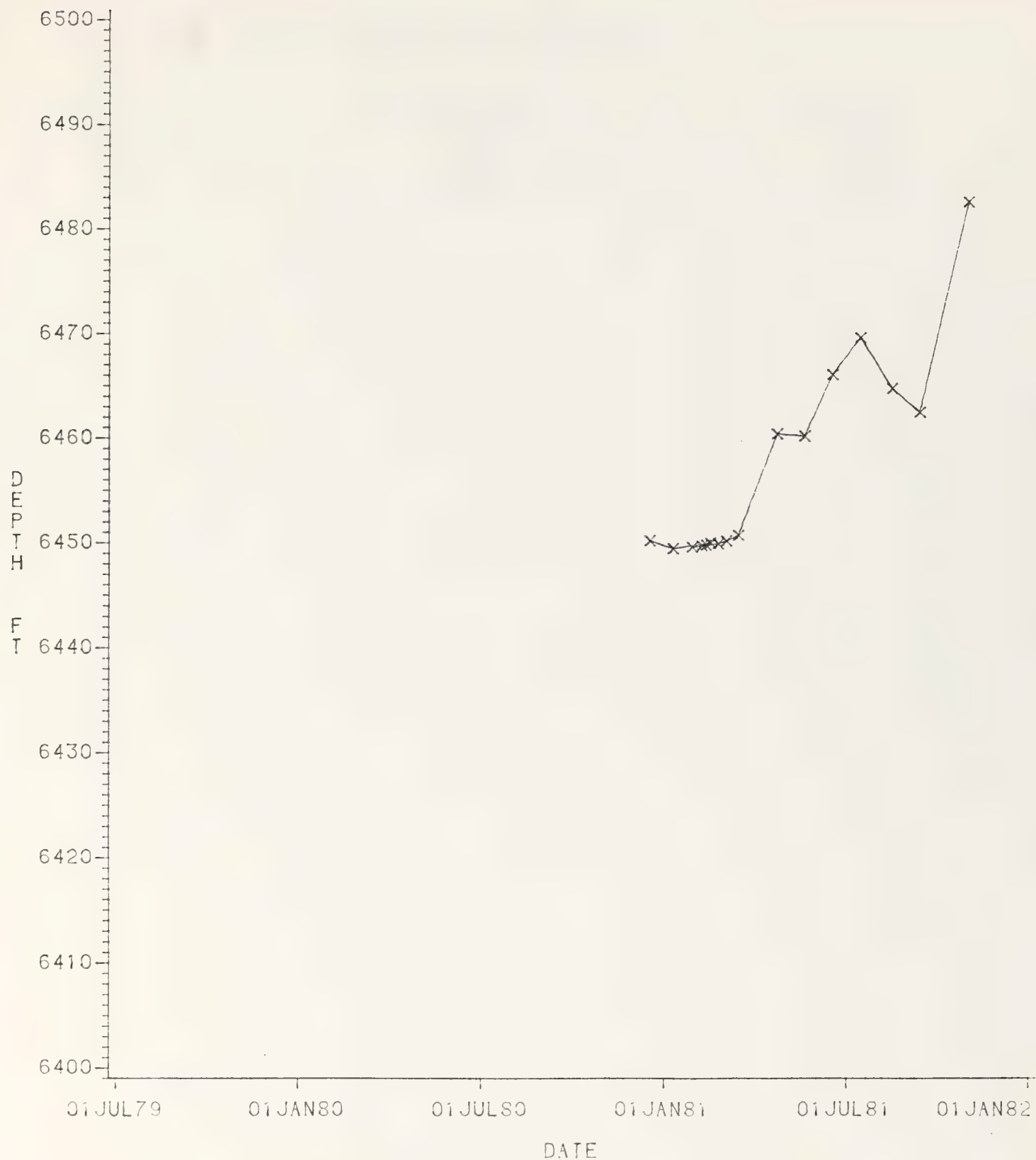


TABLE 2.2.1.4-7
STEVENS RECORDER DAILY WATER LEVELS
FOR UPPER AQUIFER WELLS

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
SG-1-2	WD12	I-165
SG-19	WD19	I-165
SG-10	WD90	I-169

*
CB-TRACT
STEVENS RECORDER WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

YR	MO	DY	WD12 DEPTH (FT)	WD19 DEPTH (FT)
81	5	1	6326.24	6339.31
		2	6326.33	6339.41
		3	6326.55	6339.40
		4	6326.45	6338.88
		5	6326.43	6338.99
		6	6326.47	6339.14
		7	6326.45	6339.61
		8	6326.41	6339.58
		9	6326.32	6339.55
		10	6326.32	6339.44
		11	6326.45	6339.62
		12	6326.43	6339.66
		13	6326.29	6339.62
		14	6326.31	6339.70
		15	6326.54	6339.88
		16	6326.59	6339.88
		17	6326.40	6339.76
		18	6326.30	6339.72
		19	6326.37	6339.97
		20	6326.45	6339.85
		21	6326.43	6339.97
		22	6326.43	6340.11
		23	6326.40	6340.24
		24	6326.40	6340.38
		25	6326.44	6340.55
		26	6326.44	6340.71
		27	6326.45	6340.93
		28	6326.44	6341.16
		29	6326.49	6341.49
		30	6326.50	6341.64
		31	6326.59	6341.79
	6	1	6326.62	6341.92
		2	6326.65	6342.01
		3	6326.68	6342.07
		4	6326.63	6342.01
		5	6326.65	6342.03
		6	6326.73	6342.12
		7	6326.78	6342.15
		8	6326.80	6342.12
		9	6326.83	6342.07
		10	6326.83	6342.00
		11	6326.79	6341.94
		12	6326.86	6341.92
		13	6326.88	6341.84
		14	6326.82	6341.67

* WELL ID - FT FROM GROUND LEVEL

CB-TRACT *
 STEVENS RECORDER WATER LEVELS
 UPPER PARACHUTE - CREEK 1
 FOR SAMPLE DATE SHOWN

YR	MO	DY	WD12 DEPTH (FT)	WD19 DEPTH (FT)
81	6	15	6326.68	6341.53
		16	6326.69	6341.50
		17	6326.81	6341.54
		18	6326.82	6341.46
		19	6326.83	6341.43
		20	6326.88	6341.39
		21	6326.89	6341.34
		22	6326.90	6341.30
		23	6326.96	6341.48
		24	6326.94	6341.40
		25	6326.95	6341.33
		26	6326.93	6341.31
		27	6327.05	6341.36
		28	6327.12	6341.35
		29	6327.10	6341.41
		30	6327.09	6341.31
	7	1	6327.11	6341.29
		2	6327.12	6341.26
		3	6327.09	6341.24
		4	6327.12	6341.24
		5	6327.15	6341.31
		6	6327.19	6341.38
		7	6327.31	6341.43
		8	6327.21	6341.34
		9	6327.21	6341.36
		10	6327.25	6341.42
		11	6327.31	6341.48
		12	6327.32	
		16	6326.29	
		17	6326.31	
		18	6326.32	
		19	6326.32	
		20	6326.32	
		21	6326.33	
		22	6326.37	
		23	6326.44	
		24	6326.44	
		25	6326.44	
		26	6326.52	
		27	6326.40	
		28	6326.44	
		29	6326.49	
		30	6326.54	
		31	6326.53	
	8	1	6326.54	

* WELL ID - FT FROM GROUND LEVEL

CB-TRACT *
 STEVENS RECORDER WATER LEVELS
 UPPER PARACHUTE - CREEK 1
 FOR SAMPLE DATE SHOWN

YR	MO	DY	WD12 DEPTH (FT)	WD19 DEPTH (FT)
81	8	2	6326.63	
		3	6326.70	
		4	6326.74	
		5	6326.71	
		6	6326.67	
		7	6326.70	
		8	6326.77	
		9	6326.81	
		10	6326.74	
		11	6326.77	
		12	6326.82	
		13	6326.80	
		14	6326.71	
		15	6326.67	
		16	6326.71	
		17	6326.75	
		18	6326.77	
		19	6326.75	
		20	6326.75	
		21	6326.74	
		22	6326.72	
		23	6326.69	
		24	6326.68	
		25	6326.62	
		26	6326.61	
		27	6326.61	
		28	6326.62	
		29	6326.58	
		30	6326.62	
		31	6326.58	
	9	1	6326.56	
		2	6326.53	
		3	6326.48	
		4	6326.46	
		5	6326.43	
		6	6326.34	
		7	6326.26	
		8	6326.32	
		9	6326.46	
		10	6326.78	
		11	6326.99	
		12	6327.37	
		13	6328.30	
		14	6328.76	
		15	6329.23	

* WELL ID - FT FROM GROUND LEVEL

*
 CB-TRACT
 STEVENS DECODED WATER LEVELS
 UPPER PARACHUTE - CREEK 1
 FOR SAMPLE DATE SHOWN

YR	MO	DY	WD12 DEPTH (FT)	WD19 DEPTH (FT)
81	9	16	6329.73	
		17	6330.21	
		18	6328.67	
		19	6324.36	
		20	6324.13	
		21	6326.70	
		22	6329.37	
		23	6331.11	
		24	6331.11	
		25	6331.11	
		26	6328.31	
		27	6326.78	
		28	6326.78	
		29	6323.39	
		30	6321.64	
	10	1	6321.67	
		2	6322.23	
		3	6322.25	
		4	6322.53	
		5	6325.30	
		6	6327.49	
		7	6330.38	
		8	6330.31	
		9	6330.26	
		10	6330.17	
		11	6330.17	
		12	6330.17	
		13	6330.17	
		14	6330.17	
		15	6330.17	
		16	6330.17	
		17	6330.17	
		18	6330.17	
		19	6330.17	
		20	6330.17	
		21	6330.17	
		22	6330.17	
		23	6330.17	
		24	6330.17	
		25	6330.17	
		26	6330.17	
		27	6330.17	
		28	6330.17	
		29	6330.17	
		30	6330.17	
		31	6330.17	
	11	1	6330.17	
		2	6330.17	
		3	6330.17	
		4	6330.17	
		5	6330.17	
		6	6330.17	

* WELL ID - FT FROM GROUND LEVEL

CB-TRACT *
 STEVENS RECORDER WATER LEVELS
 UPPER PARACHUTE - CREEK 1
 FOR SAMPLE DATE SHOWN

YR	MO	DY	WD90 DEPTH (FT)
81	5	18	6625.88
		19	6626.04
		20	6626.49
		21	6626.75
		22	6627.07
		23	6627.37
		24	6627.70
		25	6627.95
		26	6627.98
		27	6628.28
		28	6628.46
		29	6628.68
		30	6629.08
		31	6629.39
	6	1	6629.72
		2	6630.09
		3	6621.76
		4	6622.83
		5	6622.52
		6	6623.84
		7	6623.52
		8	6623.55
		9	6624.83
		10	6624.98
		11	6624.52
		12	6625.82
		13	6626.01
		14	6626.04
		15	6625.52
		16	6626.91
		17	6626.52
		18	6626.57
		19	6627.92
		20	6627.52
		21	6627.54
		22	6629.03
		23	6628.52
		24	6628.59
		25	6629.52
		26	6622.72
		27	6631.09
		28	6630.52
		29	6623.72
		30	6631.90
	7	1	6632.12

* WELL ID - FT FROM GROUND LEVEL

*
 CB-TRACT
 STEVENS RECORDER WATER LEVELS
 UPPER PARACHUTE - CREEK 1
 FOR SAMPLE DATE SHOWN

			WD90
YR	MO	DY	DEPTH (FT)
81	7	2	6631.52
		3	6631.54
		4	6632.84
		5	6632.52
		6	6632.60
		7	6633.82
		8	6633.88
		9	6634.14
		10	6633.52
		11	6634.82
		12	6634.92
		13	6635.06
		14	6634.52
		15	6634.62
		16	6635.82
		17	6635.92
		18	6636.07
		19	6636.25
		20	6635.52
		21	6636.72
		22	6636.95
		23	6637.12
		24	6636.52
		25	6636.70
		26	6639.79

WELL ID - FT FROM GROUND LEVEL

LOWER
AQUIFER WELLS

2.2.1.5 Lower Aquifer Wells

Water levels of Lower Aquifer Wells for this reporting period are presented in Table 2.2.1.5-1. The deep well monitoring network is presented in Section 2.2.1.4, Figure 2.2.1.4-1.

Levels data are presented in Table 2.2.1.5-2 for fourteen Lower Aquifer monitoring wells. These wells are required by the Water Augmentation Plan (WAP).

Water levels for Lower Piceance Creek (LPC) underground aquifer levels of C-b Tract wells are presented in Table 2.2.1.5-3.

Plots of WAP lower aquifer well levels are presented in this section; to reference these plots see Table 2.2.1.5-4. Time Series plots of water levels for bedrock wells monitoring Lower Piceance Creek Zones are listed by station with corresponding page number in Table 2.2.1.5-5.

Stevens Recorder instrumentation for monitoring continuous water levels are operating at station WG12, refer to Table 2.2.1.5-6 for daily values.

Daily levels data presented in table form of Lower Aquifer, LPC₃ and LPC₄ wells are reported in Section 2.2.1.6 (Impoundments/Land Application/Reinjection/Discharge).

Table 2.2.1.5-1

CB-TRACT
WATER LEVELS IN LOWER AQUIFER WELLS
FOR SAMPLE DATE SHOWN

WELL ID-M.P.		ELEV(FT)	
WY44	WY45		WY46
YR	MO	DEPTH (FT)	DEPTH (FT)
81	5	6434	6434
	6	6491	6498
	7	6460	6444
	8	6418	6402
	9	6528	6425
	10	6536	6412

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLOWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

Table 2.2.1.5-2

PAGE 1

CH-TRACT
WATER LEVELS IN LOWER AQUIFER WELLS
REQUIRED BY WATER AUGMENTATION PLAN
FOR SAMPLE DATE SHOWN

YR	MO	WELL ID - MEASURING POINT ELEVATION (FT)															
		WY64	WY65	WY66	WY67	WY68	WY69	WY70	WY71	WY72	WY75	WY76	WY77	WY78	WY79		
		DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)		
81	5	6441	6312	FLWING	6234	6502	6885	6957	6572	6776	6771	6870	FLWING	7081			
	6	6440	6312	FLWING	6234	6501	6885	6957	6571	6775	6771	6870	FLWING	7080			
	7	6437	6310	FLWING	6232	6497	6883	6957	6572	6773	6769	6870	FLWING	7080	6627		
	8	6439	6312	FLWING	6234	6497	6885	6957	6572	6775	6771	6870	FLWING	7080	6627		
	9	6439	6311	FLWING	6234	6495	6885	6957	6571	6774	6771	6870	FLWING	7080	6627		

PLUGGD = WELL PLUGGED
DRY = WELL DRY
FLWING = WELL FLOWING
INACCS = WELL INACCESSABLE

Table 2.2.1.5-3

CH-TRACT
WATER LEVELS FOR LOWER PARACHUTE CREEK
FOR SAMPLE DATE SHOWN

		WG - LPD3				WH - LPC4					
YR	MO	WG12 ELEV (FT)	WG17 ELEV (FT)	WG18 ELEV (FT)	WG21 ELEV (FT)	WG41 ELEV (FT)	WG51 ELEV (FT)	WG52 ELEV (FT)	WG61 ELEV (FT)	WG91 ELEV (FT)	WH21 ELEV (FT)
81	5	6290	6600	6851	6707	6437	6641	6503	6433	6388	6707
	6	6284	6602	6851	6708	6500	6654	6500	6446	6386	6708
	7	6277	6602	6851	6709	6441	6667	6497	6449	6387	6709
	8	6274		6890	6673	6430	6445	6518	6388	6381	6673
	9	6270	6743	6889	6667	6426	6581	6545	6380	6372	6667
	10	6265	6747	6890		6549	6789		6420		
	11	6255	6586		6677			6521	6505	6384	6676

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLOWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

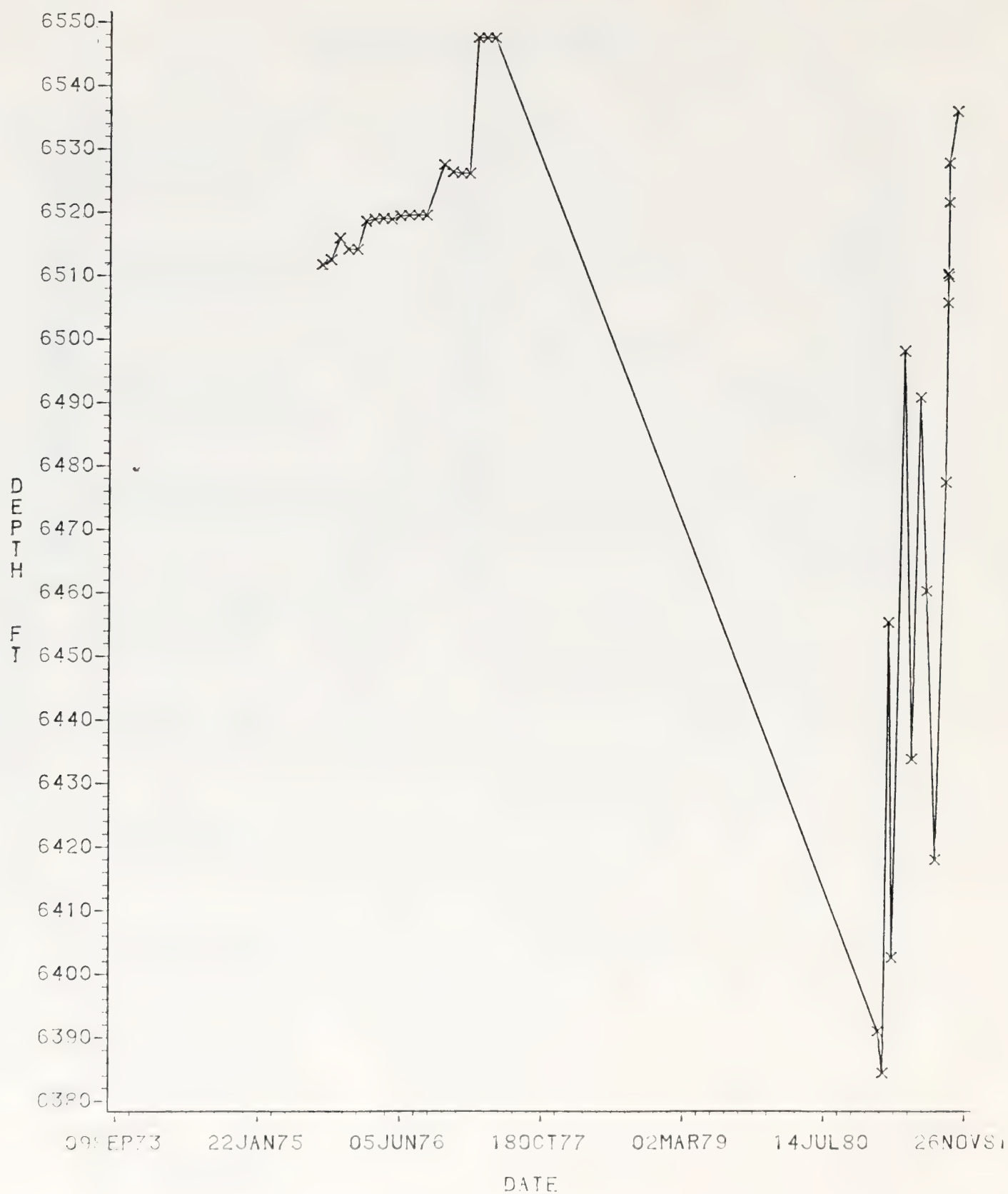
TABLE 2.2.1.5-4

PLOTS OF WAP LEVELS IN LOWER
AQUIFER WELLS

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
AT-1	WY44	I-176
AT-1C-1	WY45	I-177
AT-1C-2	WY46	I-178
TH75-5B	WY64	I-179
TH75-13B	WY65	I-180
EQUITY-1	WY66	I-181
TH75-18B	WY67	I-182
TH75-10B	WY68	I-183
TH75-9B	WY69	I-184
EQUITY-SULFUR-1A	WY70	I-185
CER RB-D-03	WY71	I-186
TH75-15B	WY72	I-187
TG71-3	WY75	I-188
TG71-5	WY76	I-189
GETTY 9-40	WY77	I-190
TG71-4	WY78	I-191
EQUITY BS-13	WY79	I-192
SG-R	WY81	I-193

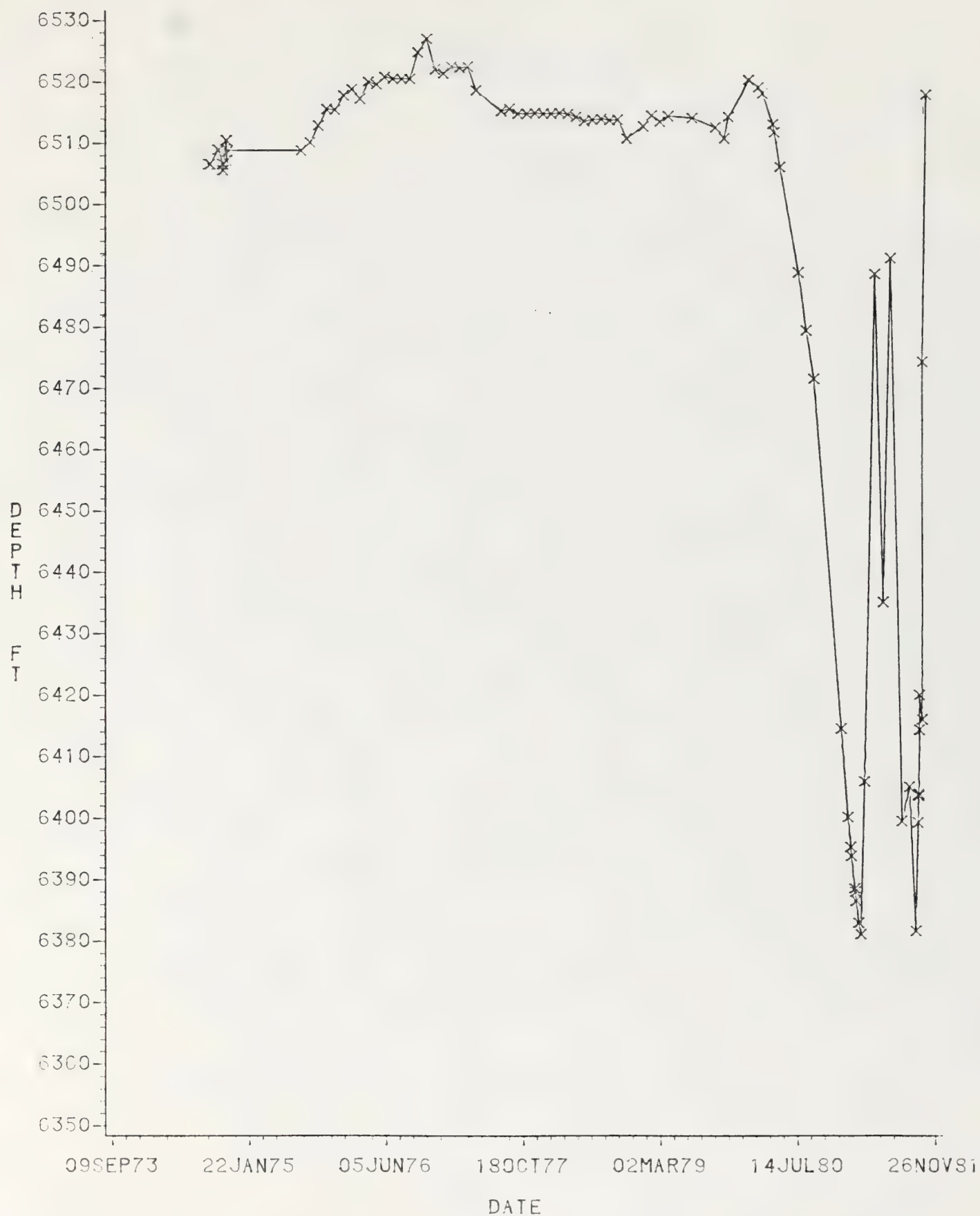
TIME SERIES FOR WELL LEVELS

LOC=WY44



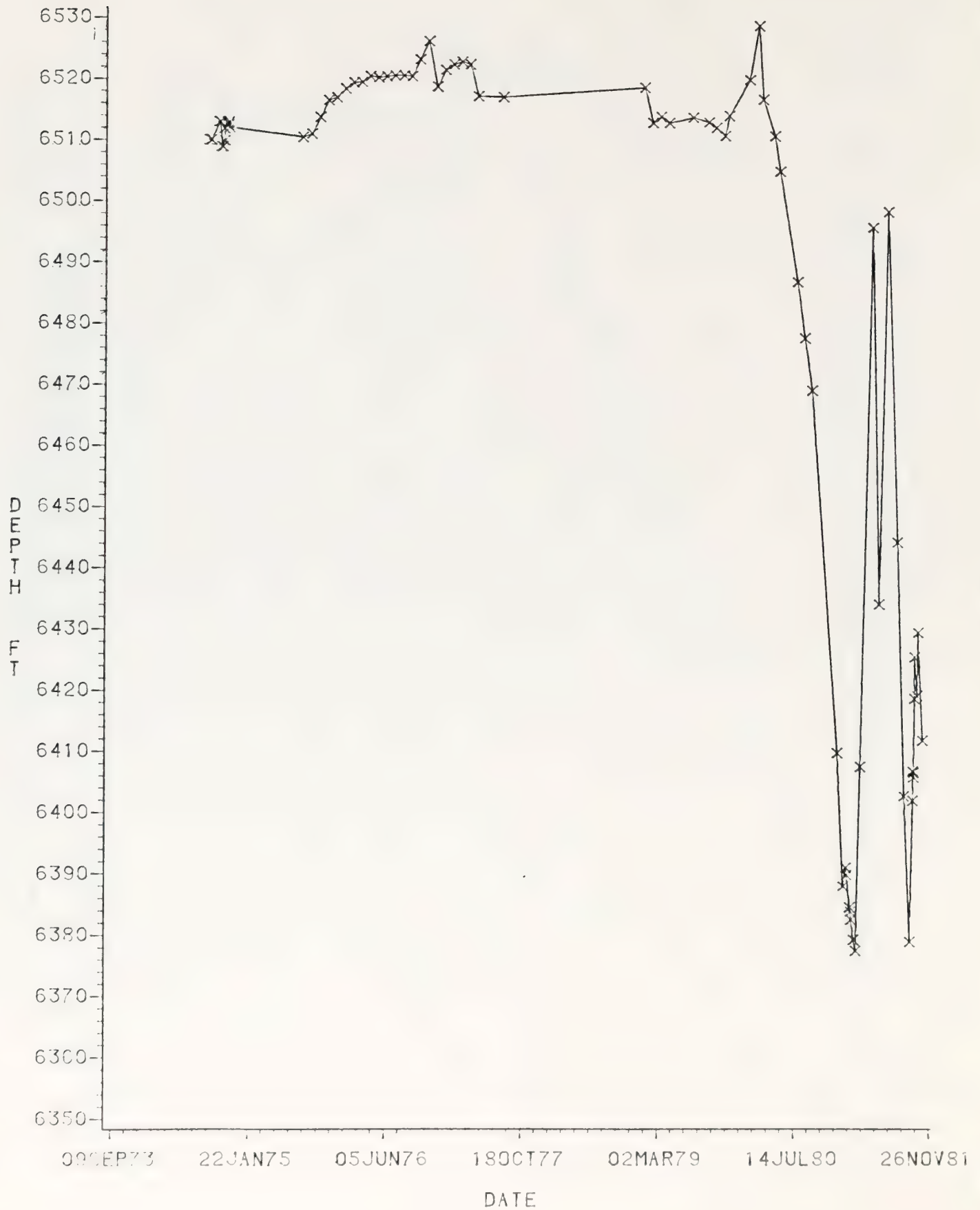
TIME SERIES FOR WELL LEVELS

LOC=WY45



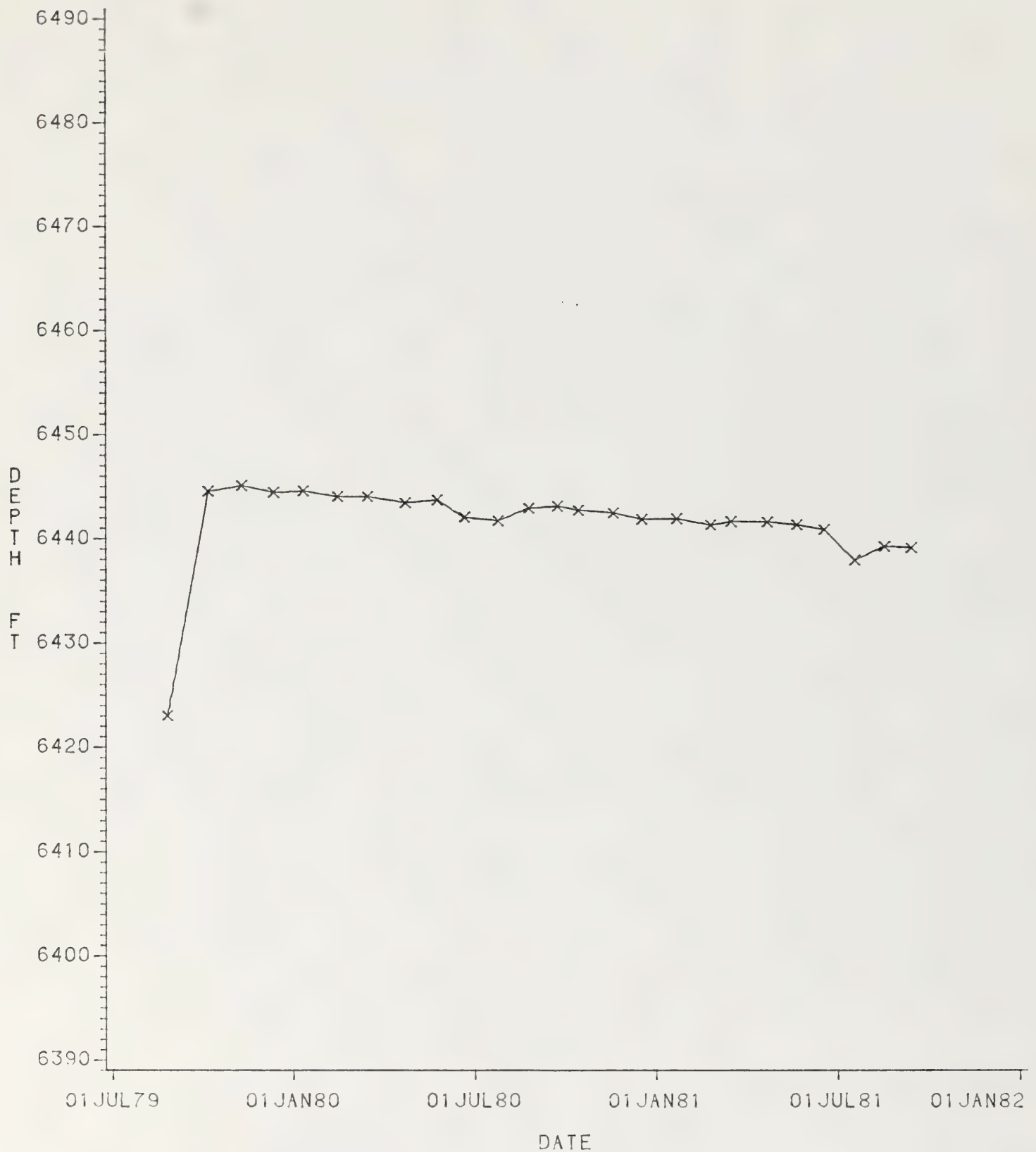
TIME SERIES FOR WELL LEVELS

LOC= WY46



NORTH OF PICEANCE CREEK

LOC=WY64



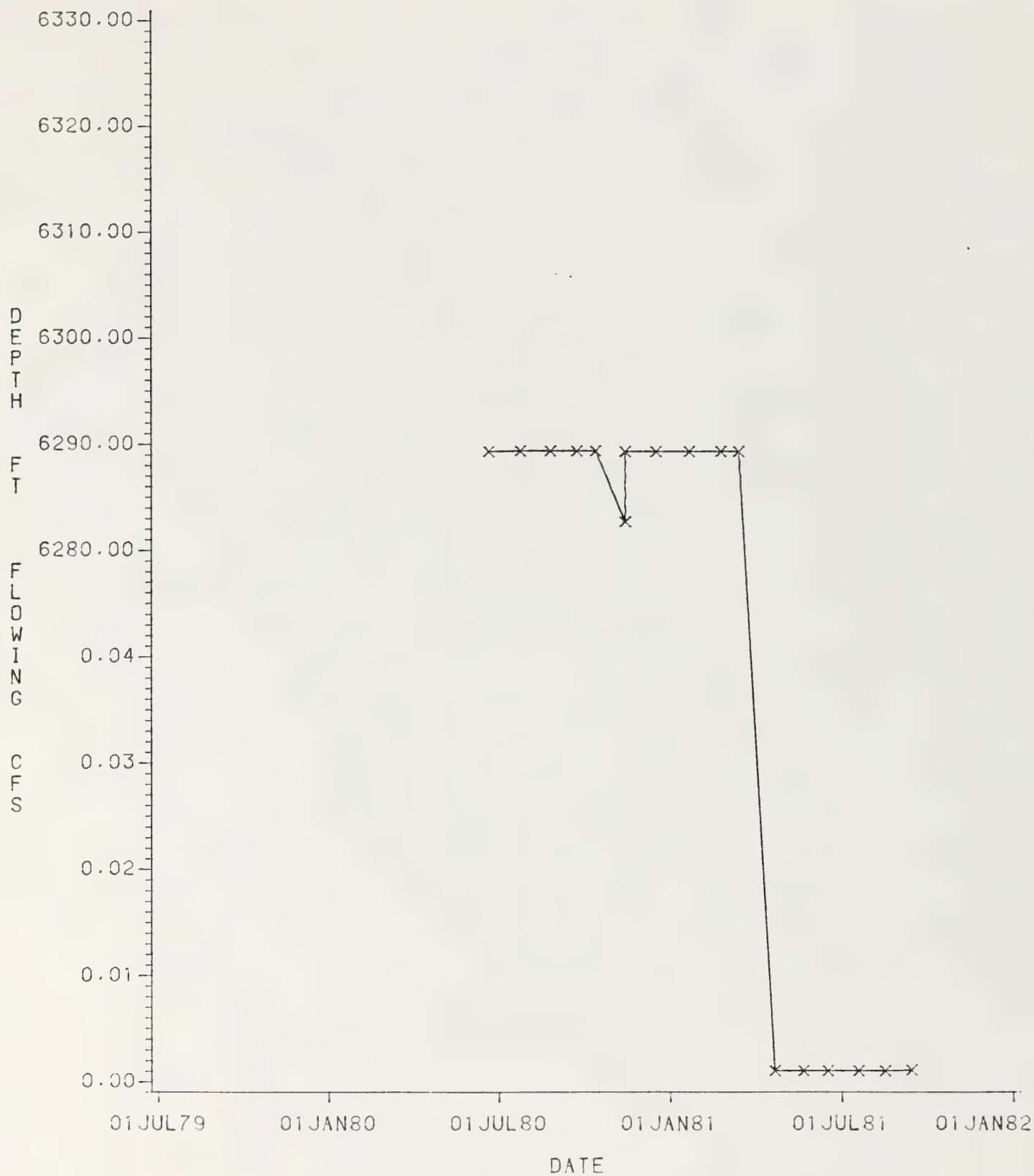
WEST--NORTHWEST OF TRACT

LOC=WY65



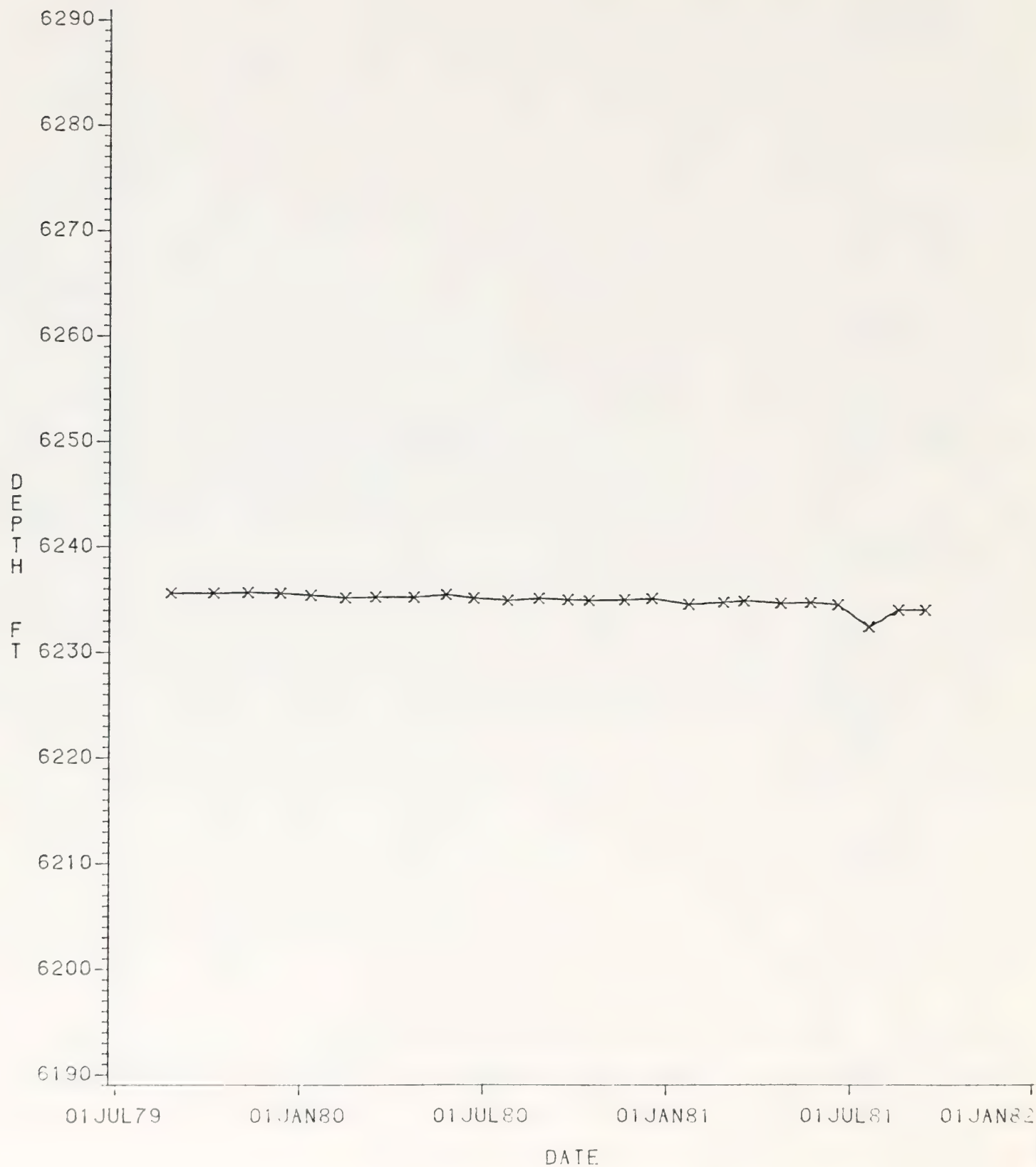
WEST-NORTHWEST OF TRACT

LOC=WY66



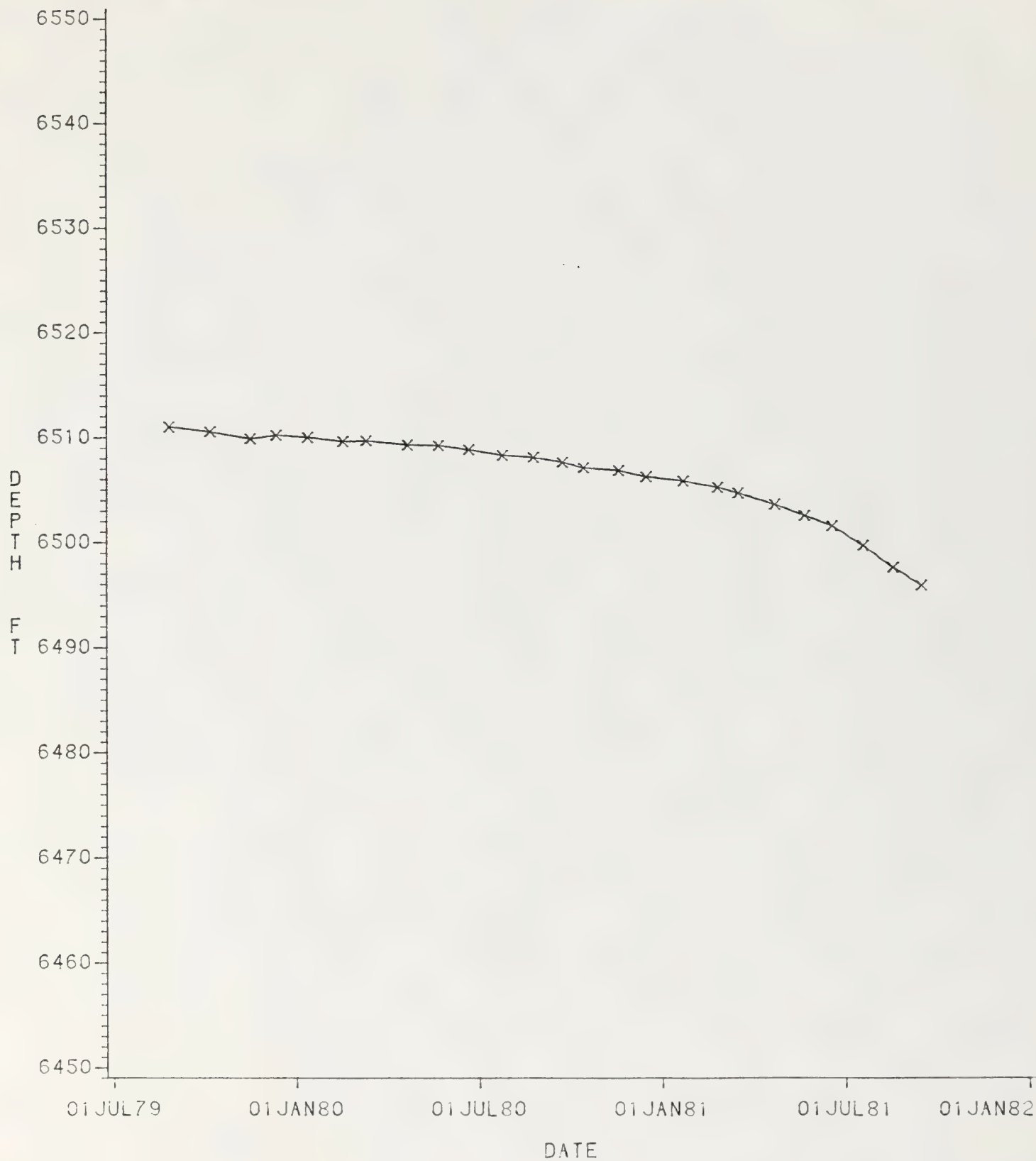
NORTH OF PICEANCE CREEK

LOC=WY67



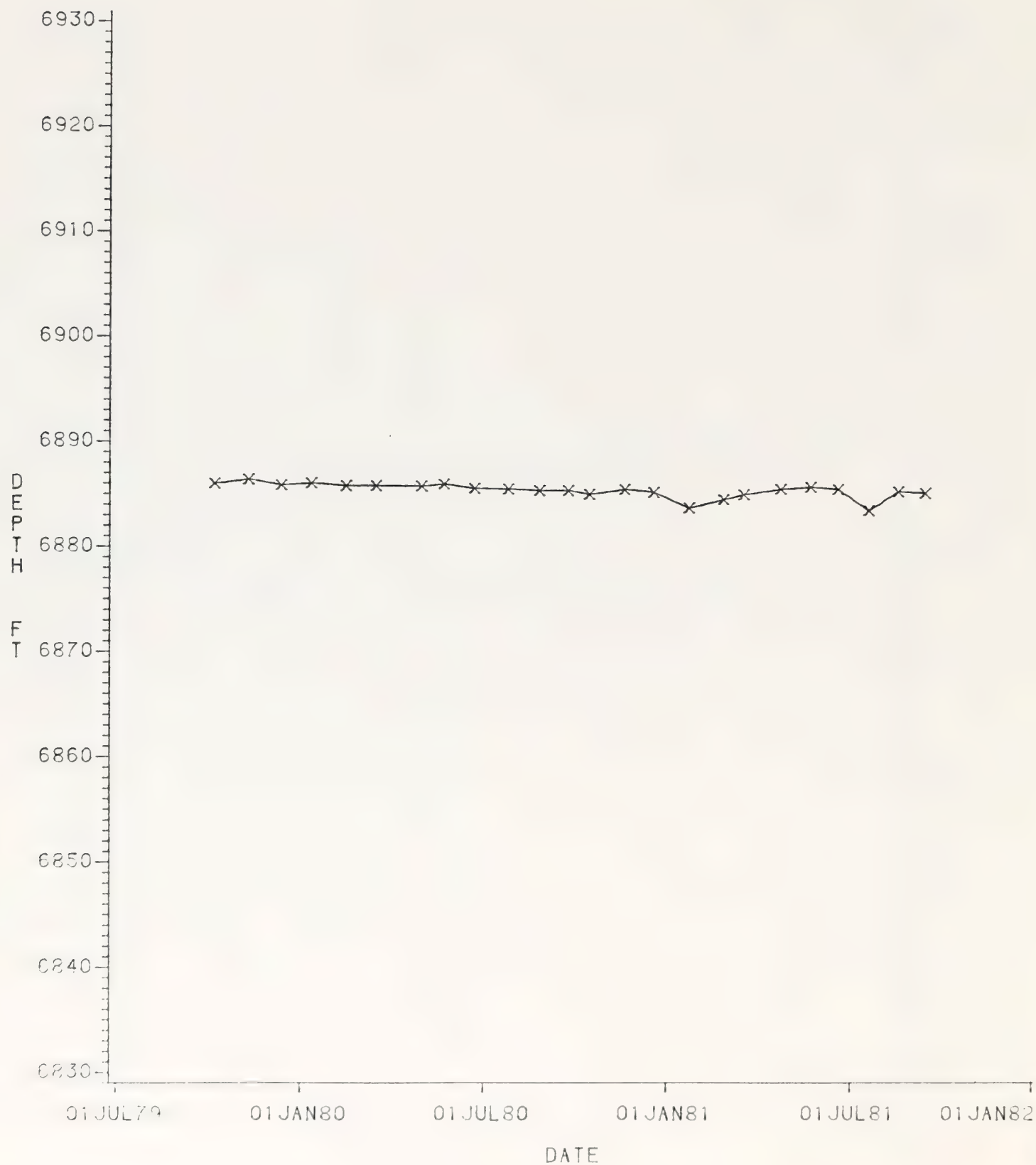
NORTH OF PICEANCE CREEK

LOC=WY68



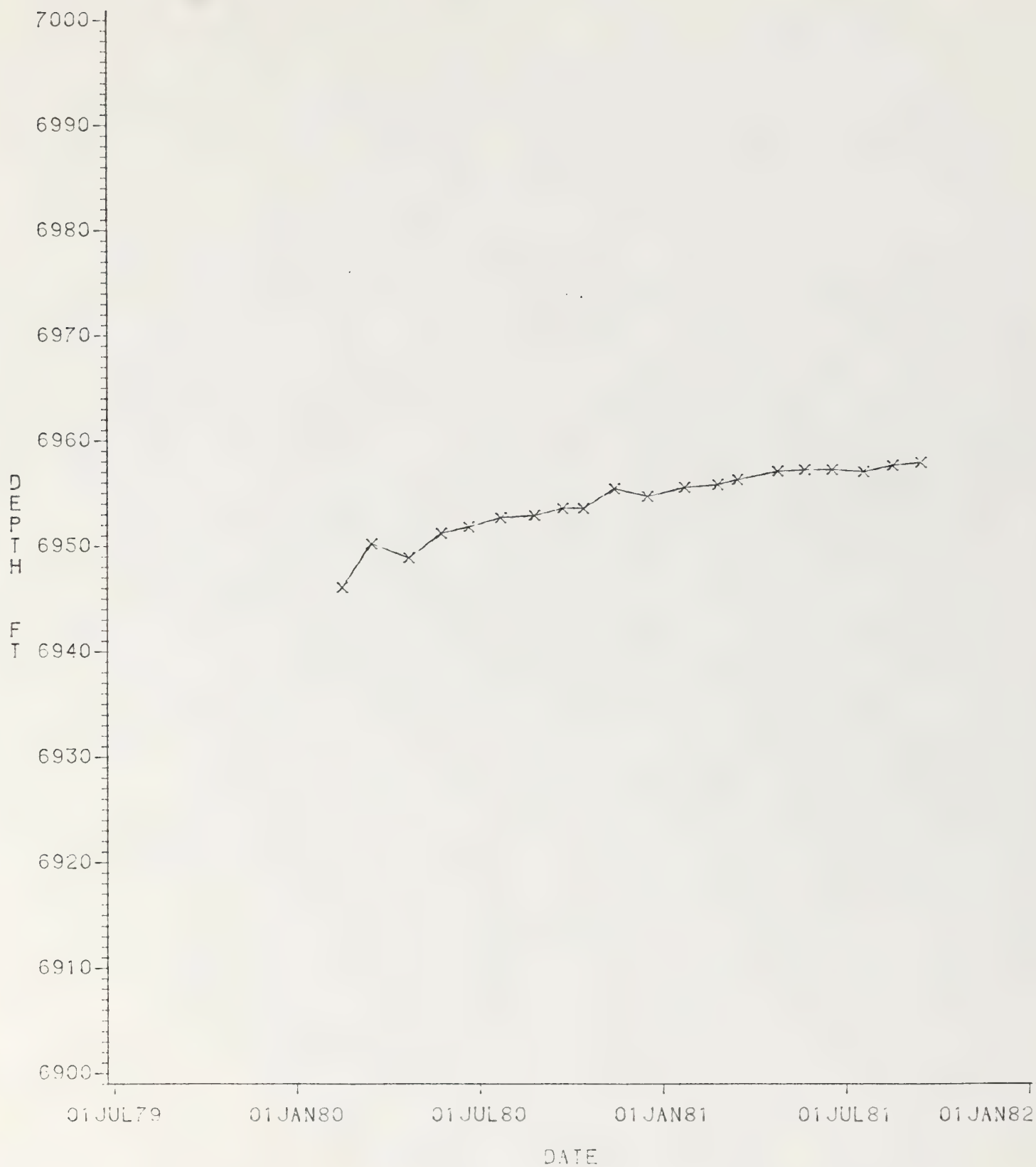
NORTH OF PICEANCE CREEK

LOC=WY69



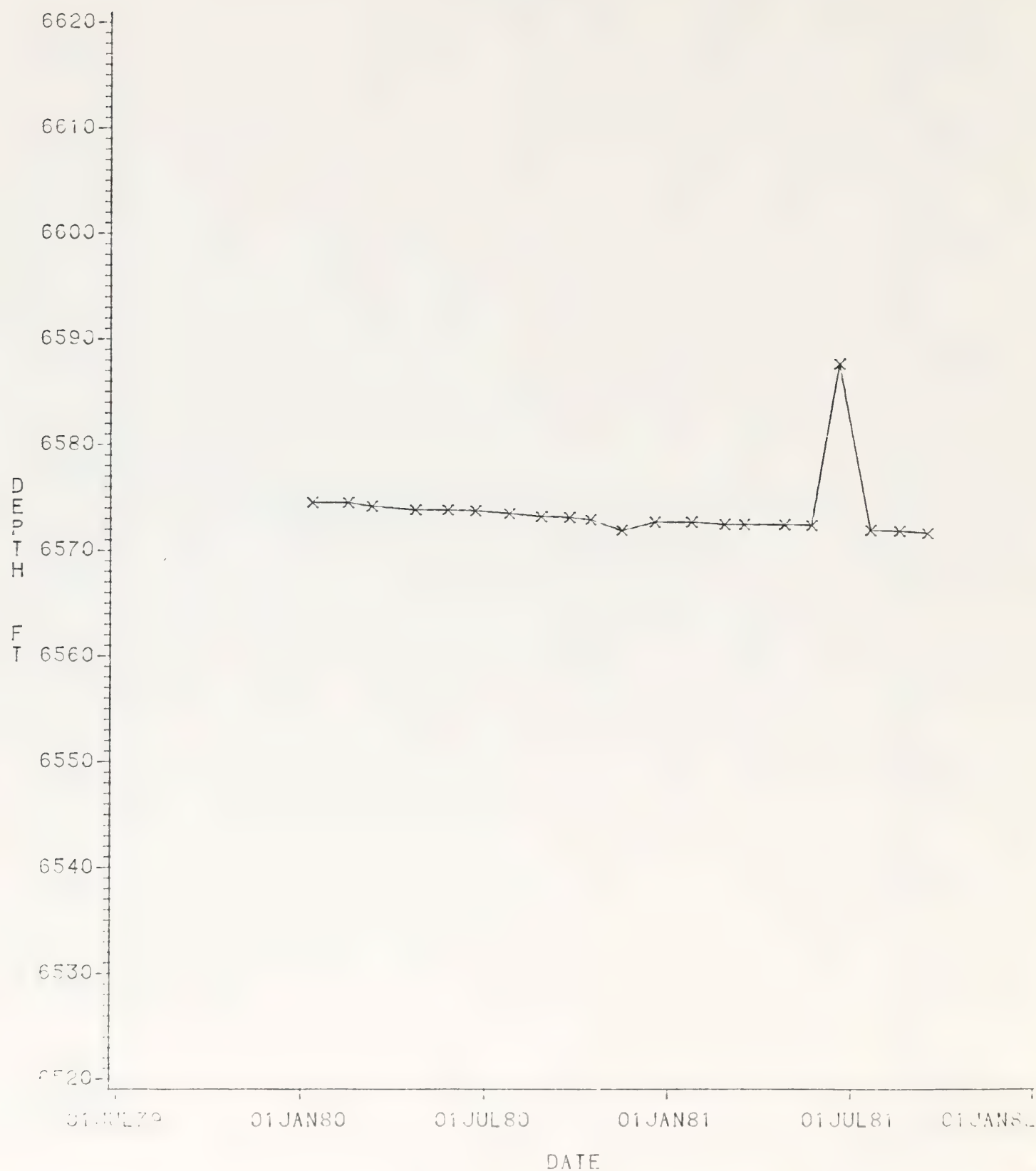
SOUTHWEST--WEST OF TRACT

LOC=WY70



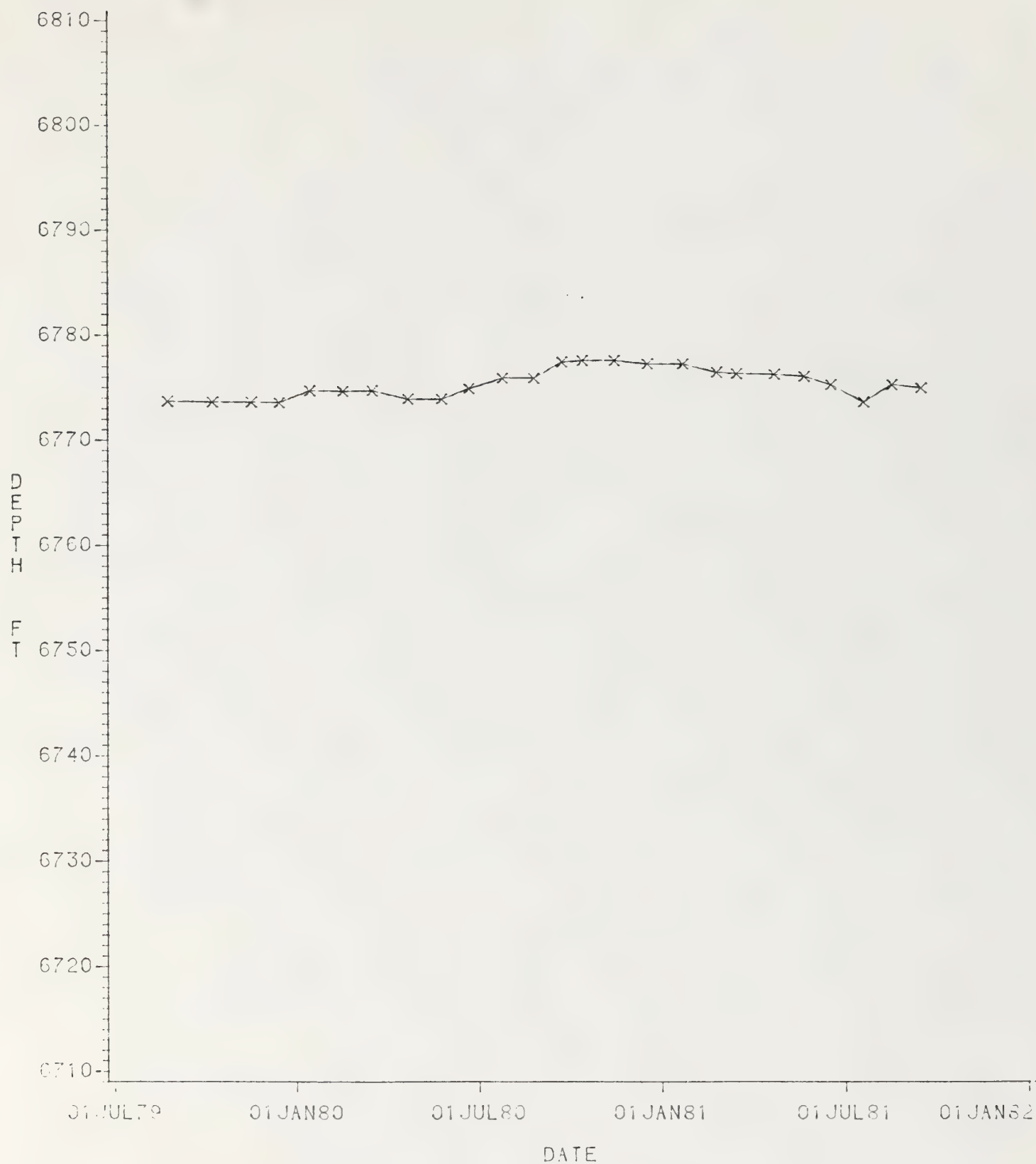
SOUTHWEST--WEST OF TRACT

LOC=WY71



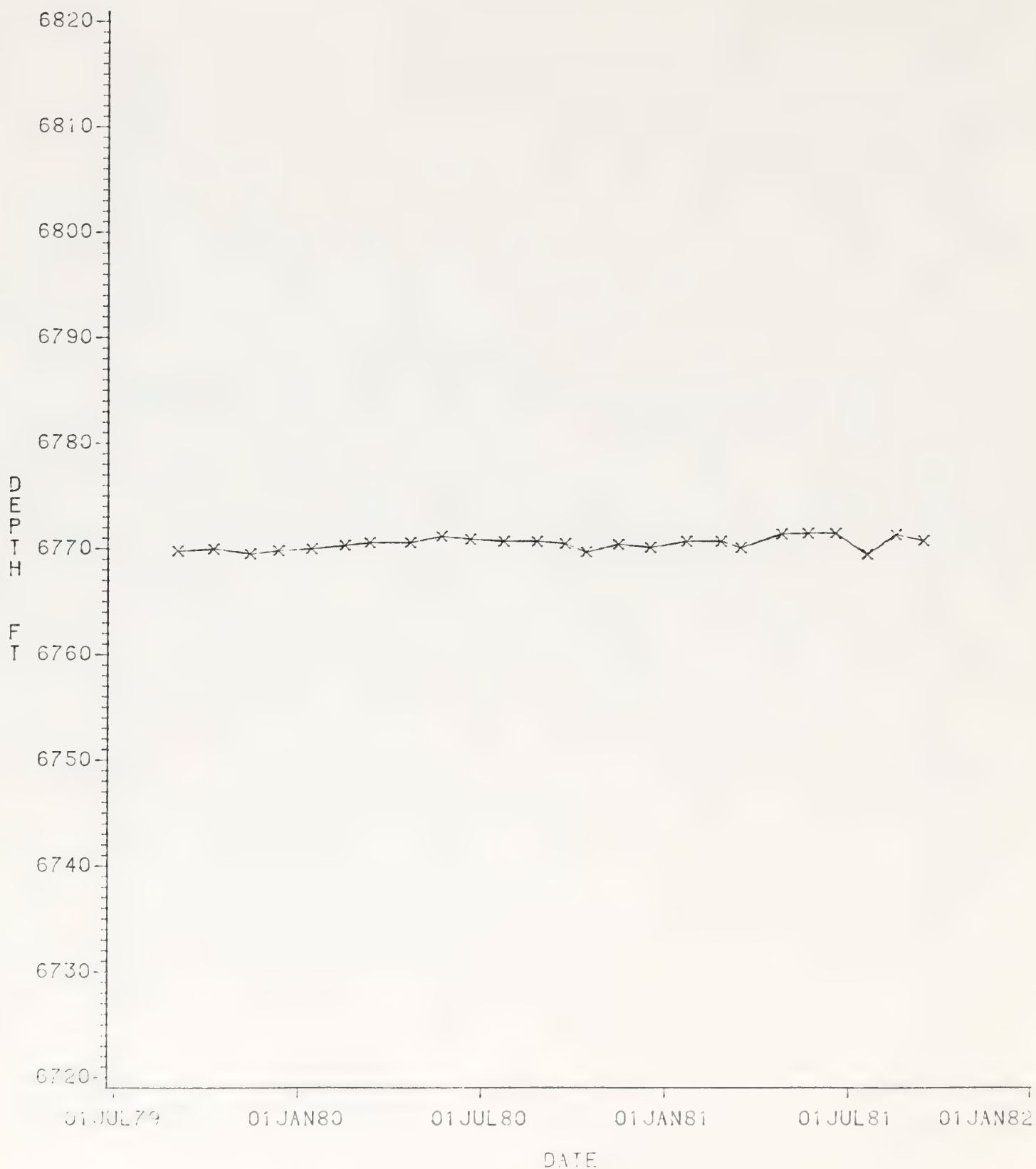
SOUTHWEST--WEST OF TRACT

LOC=WY72



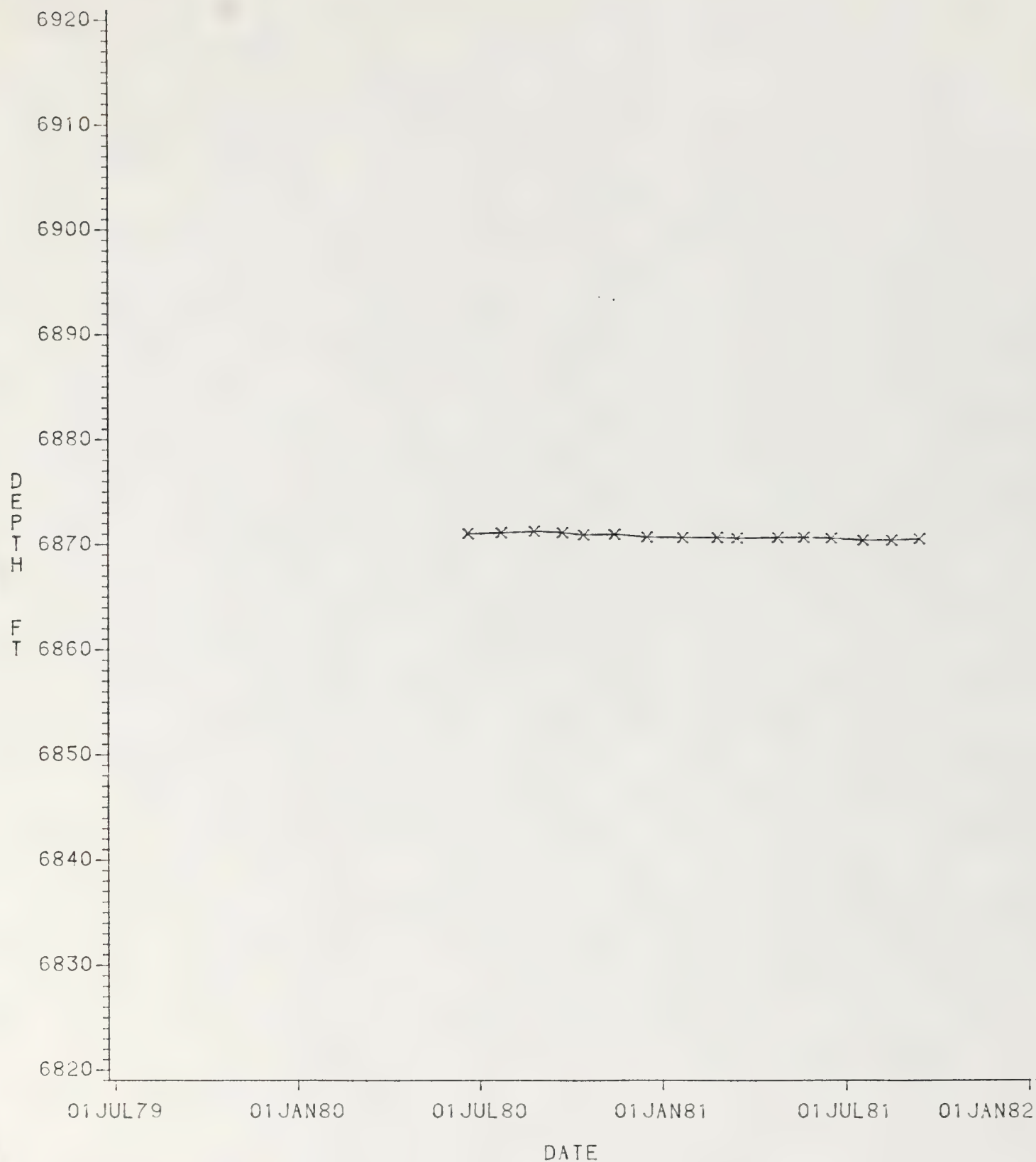
SOUTHEAST--SOUTH OF TRACT

LOC=WY75



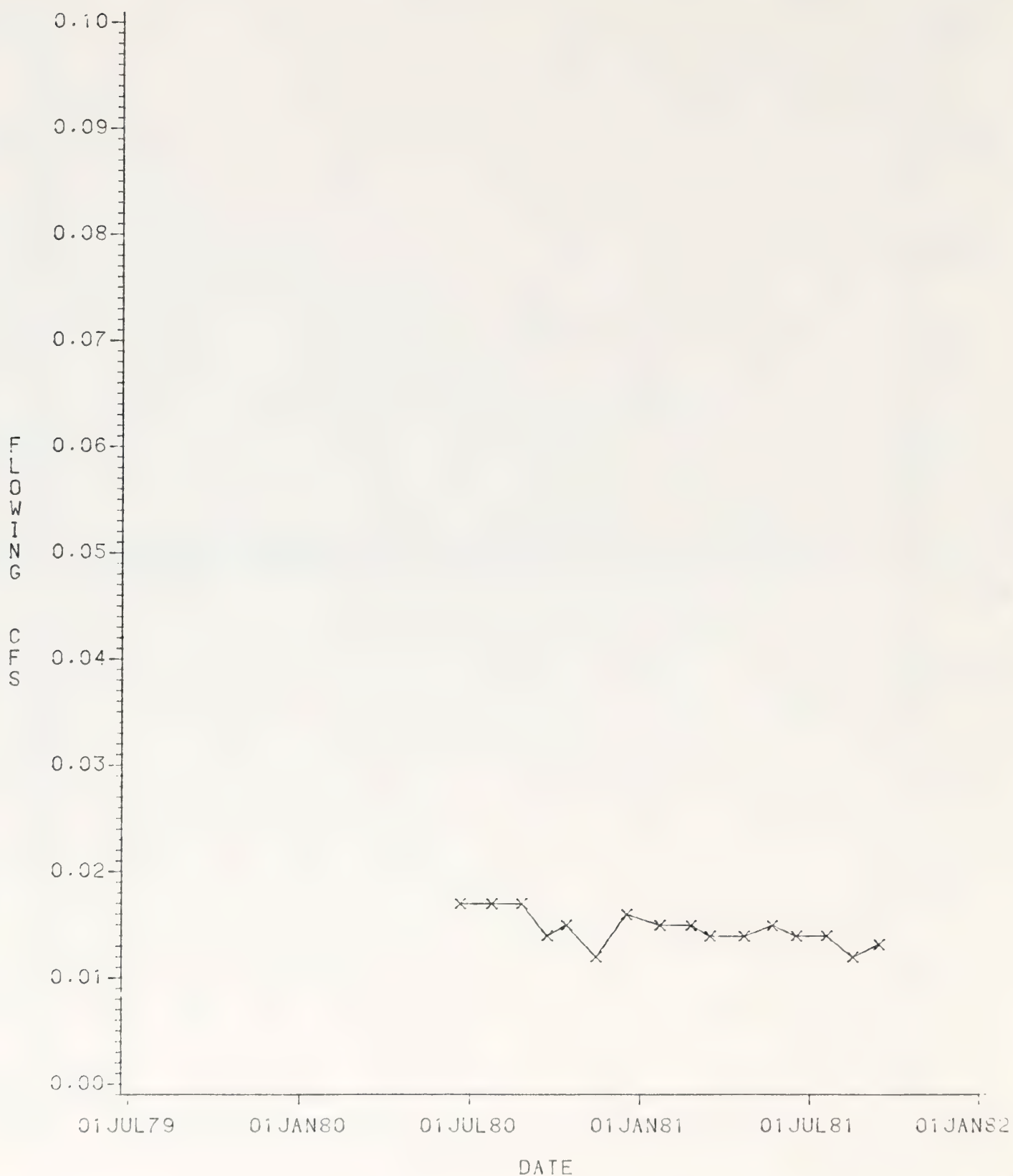
SOUTHEAST-SOUTH OF TRACT

LOC=WY76



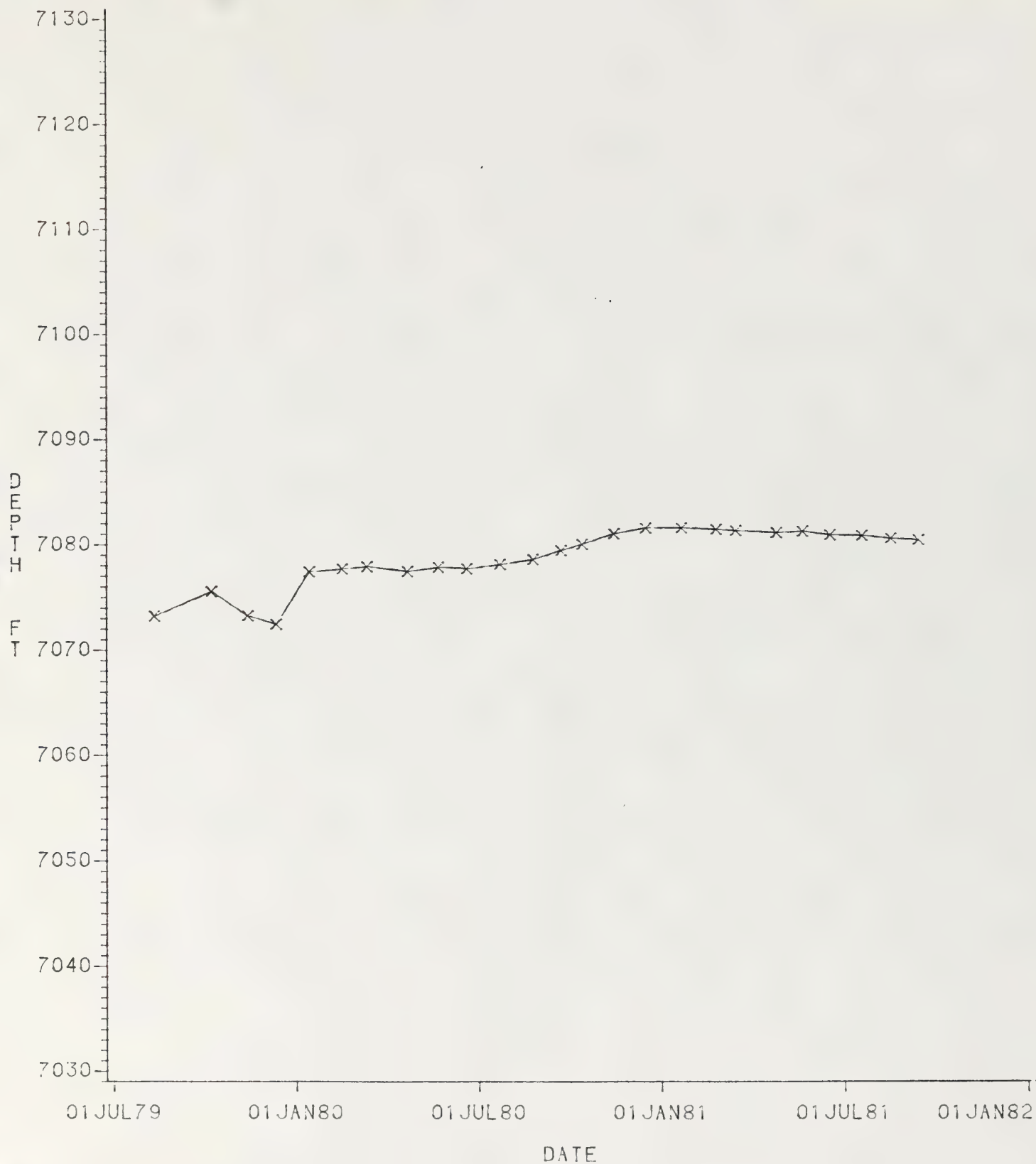
SOUTHEAST--SOUTH OF TRACT

LOC=WY77



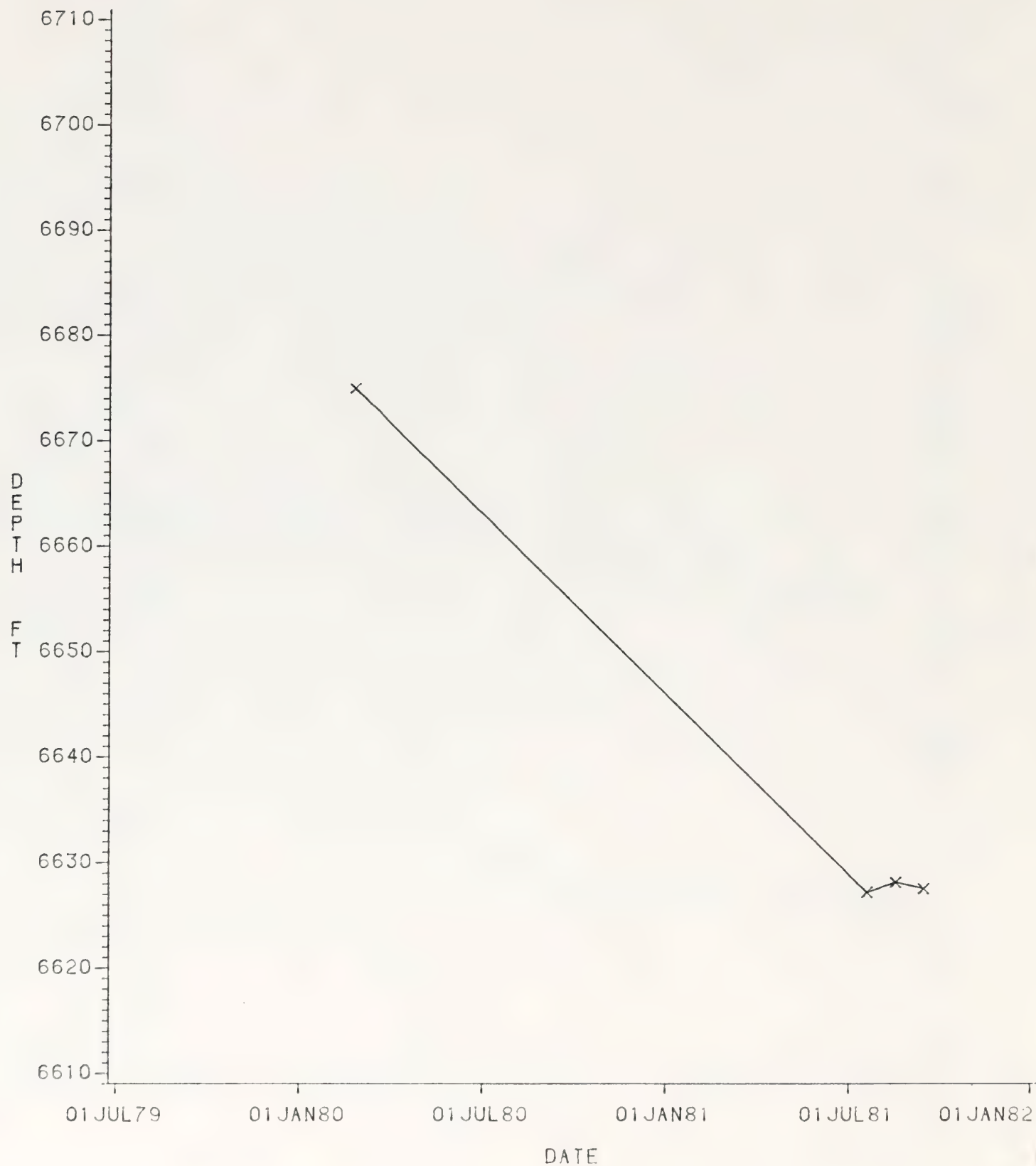
SOUTHEAST--SOUTH OF TRACT

LOC=WY78



WEST-NORTHWEST OF TRACT

LOC=WY79



TIME SERIES FOR WELL LEVELS

LOC=WY81



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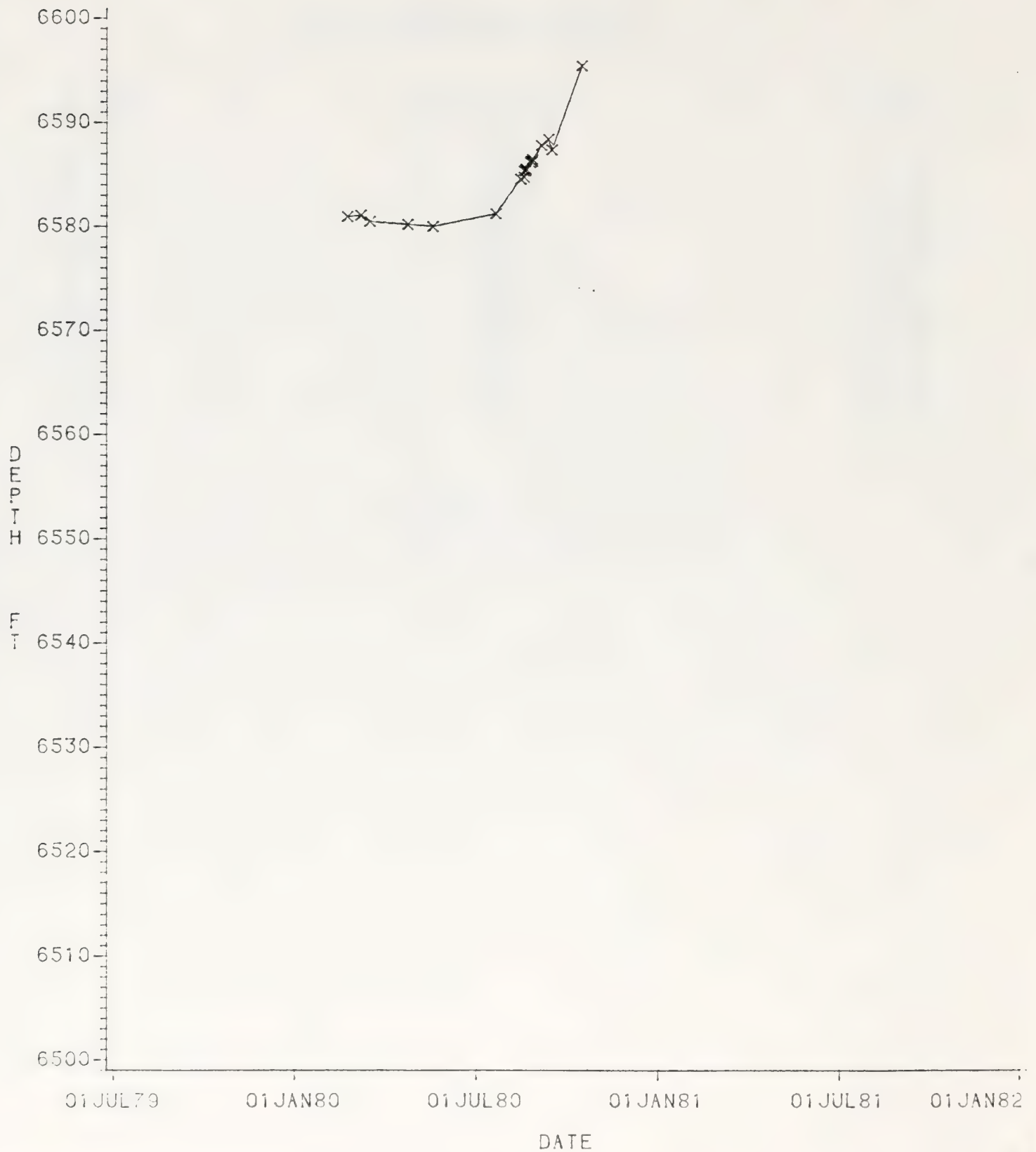
TABLE 2.2.1.5-5

TIME SERIES PLOTS OF WELL LEVELS
IN LPC₃ & LPC₄ ZONES

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
	WG10	I-196
SG-1-1	WG12	I-197
SG-17-1	WG17	I-198
SG-18A-1	WG18	I-199
SG-20-1	WG20	I-200
SG-21-2	WG21	I-201
AT1B-1	WG41	I-202
SG-10A-1	WG51	I-203
SG-11-1	WG52	I-204
SG-6-2	WG61	I-205
SG-9-1	WG91	I-206
SG-21-1	WH21	I-207

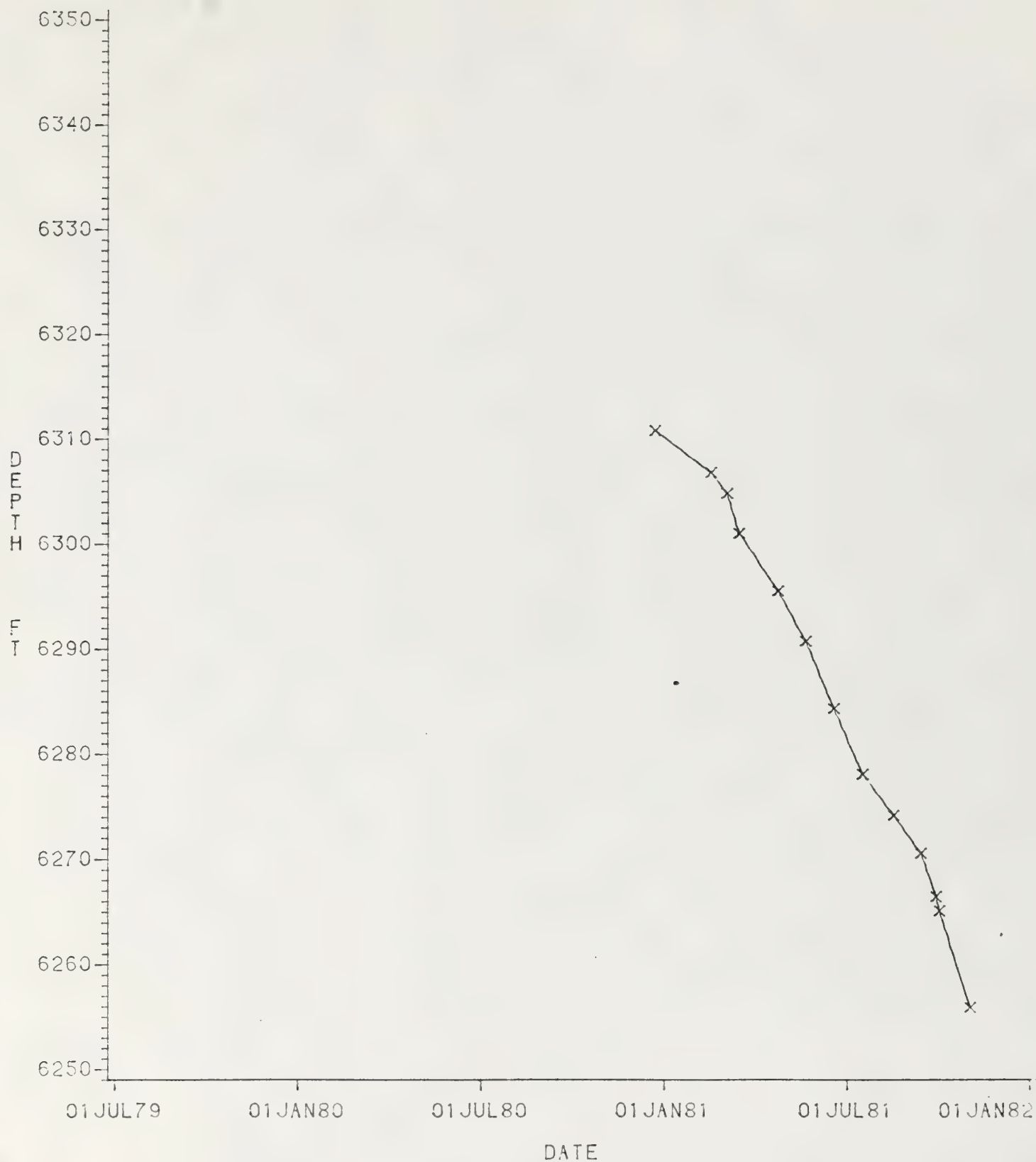
TIME SERIES FOR WELL LEVELS

LOC=WG10



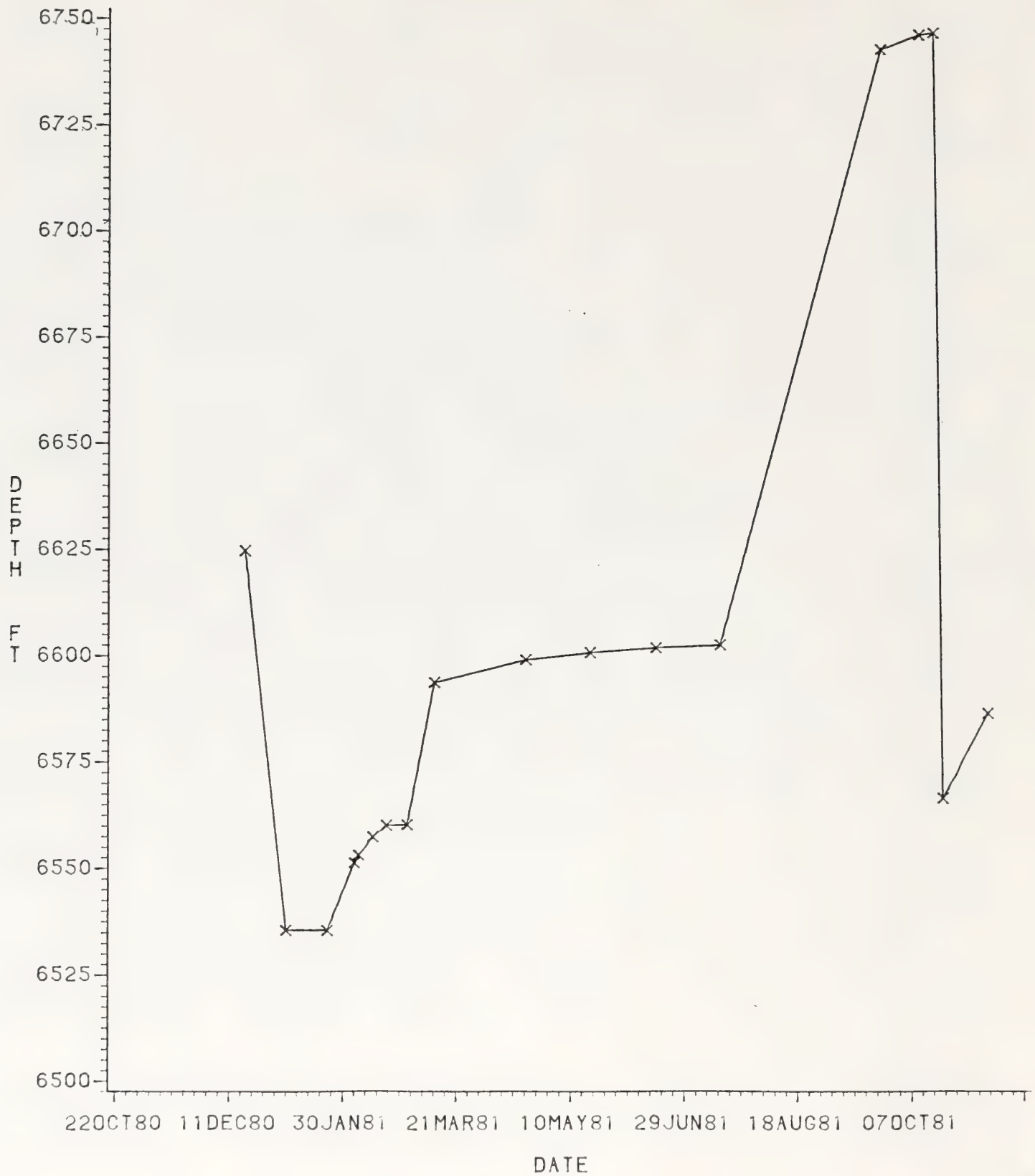
TIME SERIES FOR WELL LEVELS

LOC=WG12



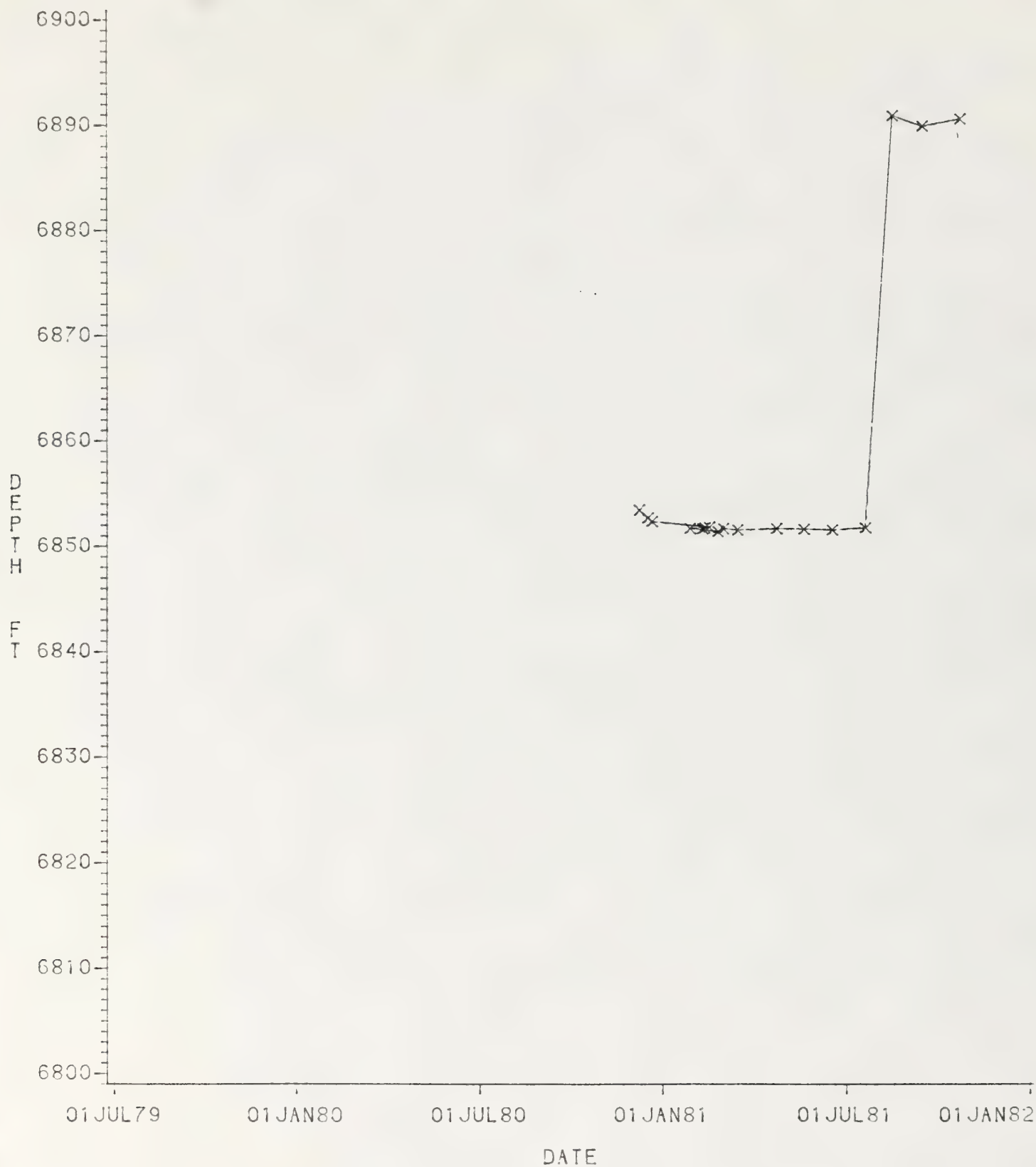
TIME SERIES FOR WELL LEVELS

LOC=WG17.



TIME SERIES FOR WELL LEVELS

L00=WG18



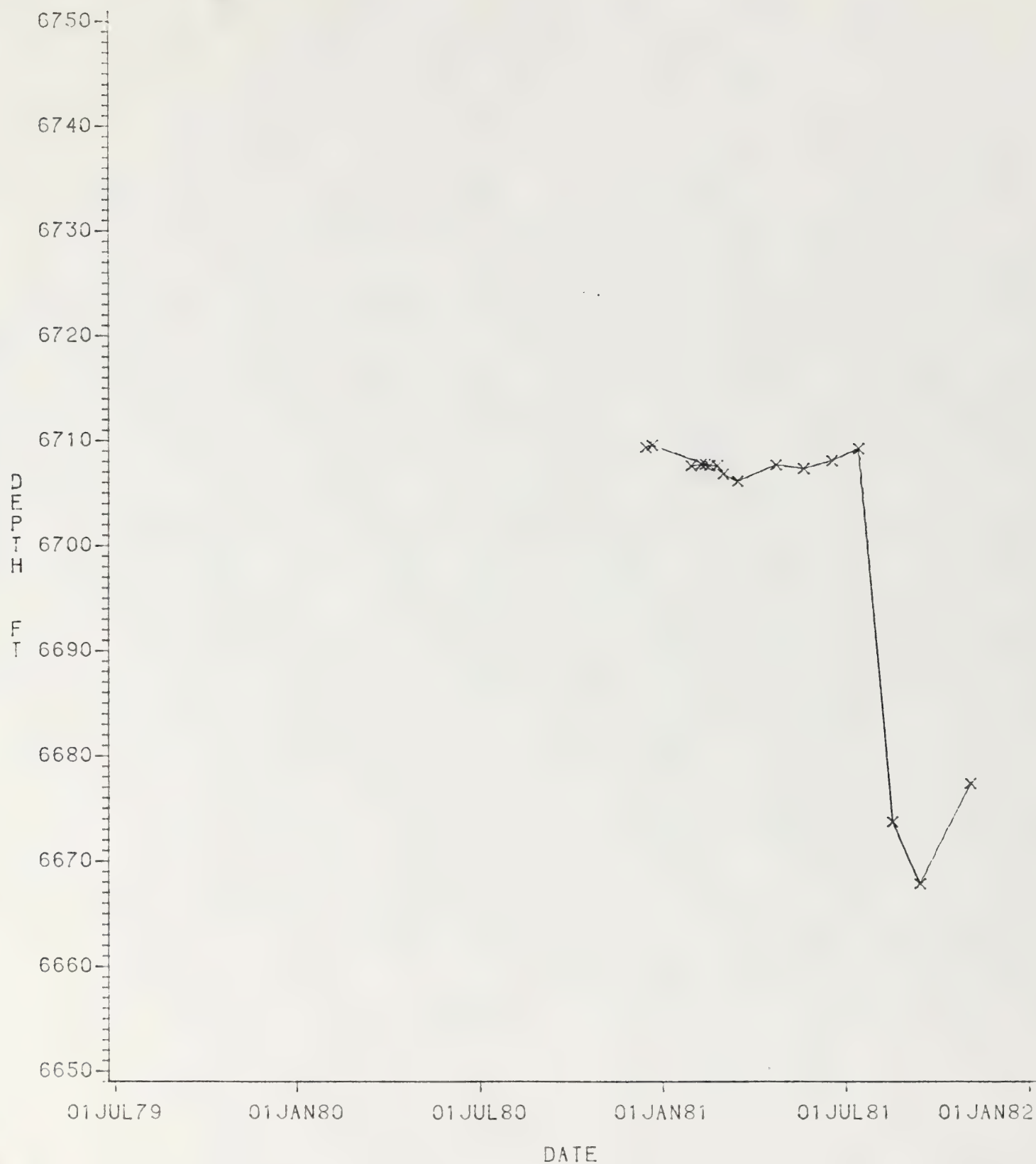
TIME SERIES FOR WELL LEVELS

LOC=WG20



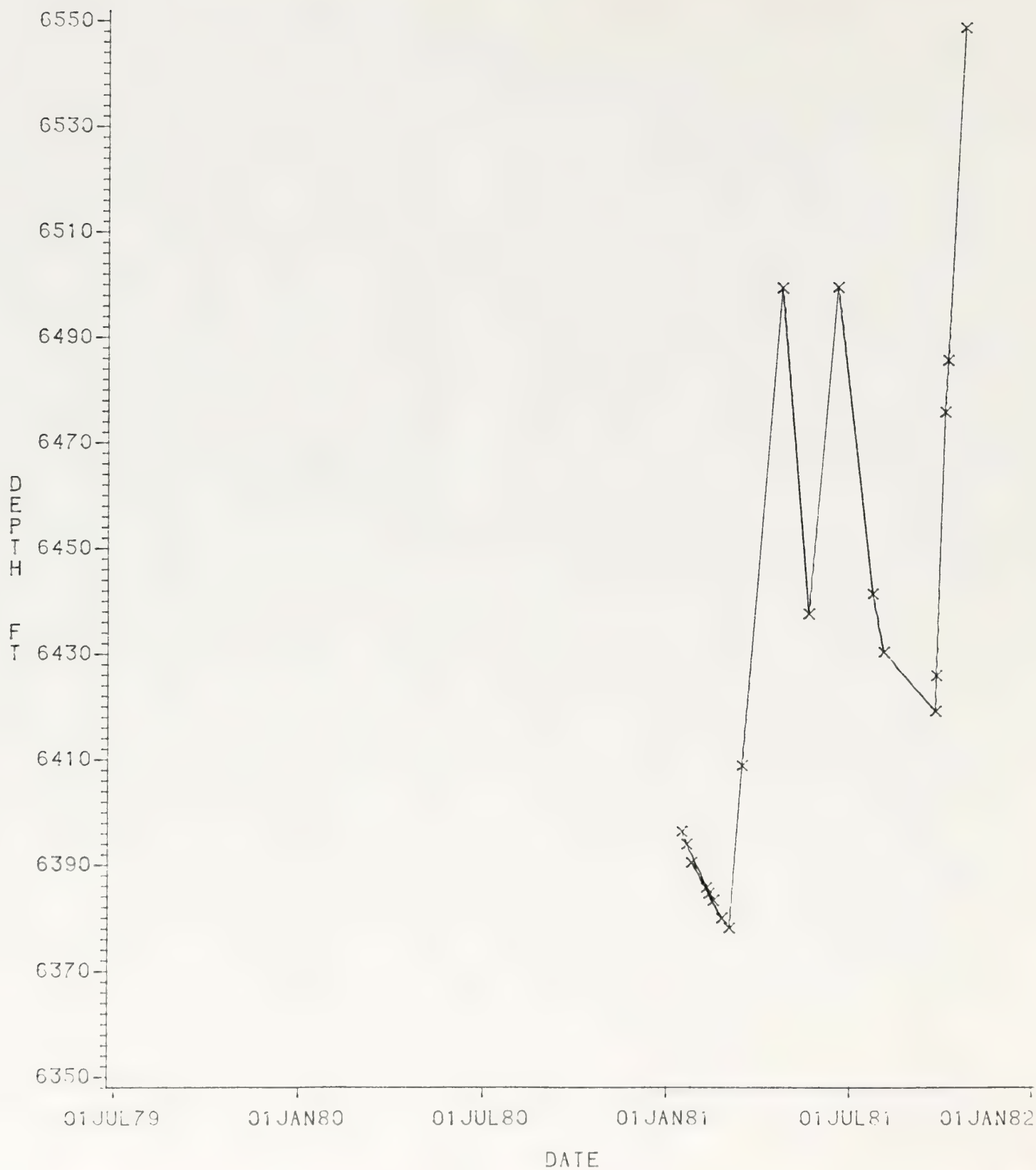
TIME SERIES FOR WELL LEVELS

LOC=WG21



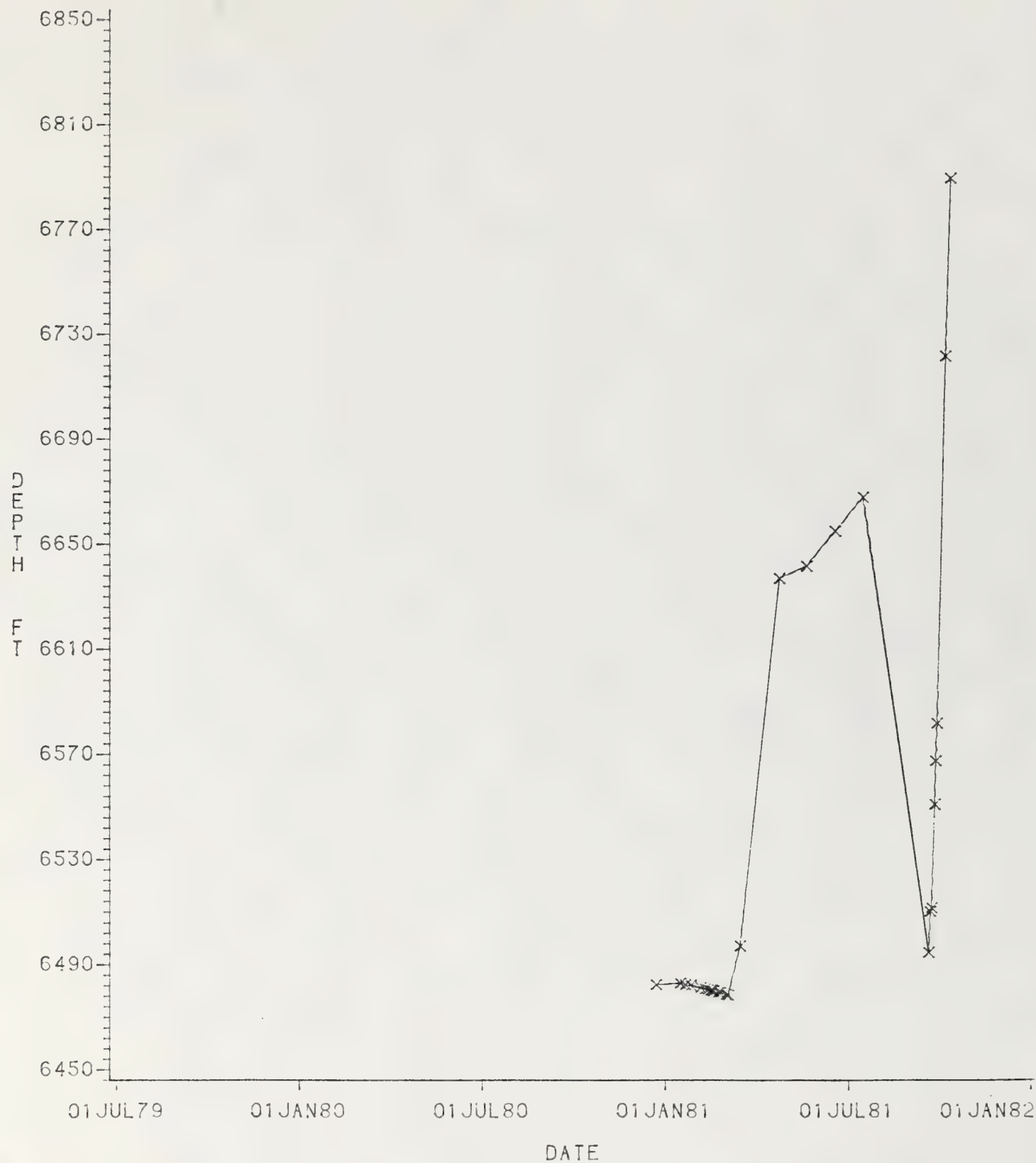
TIME SERIES FOR WELL LEVELS

LOC=WC41



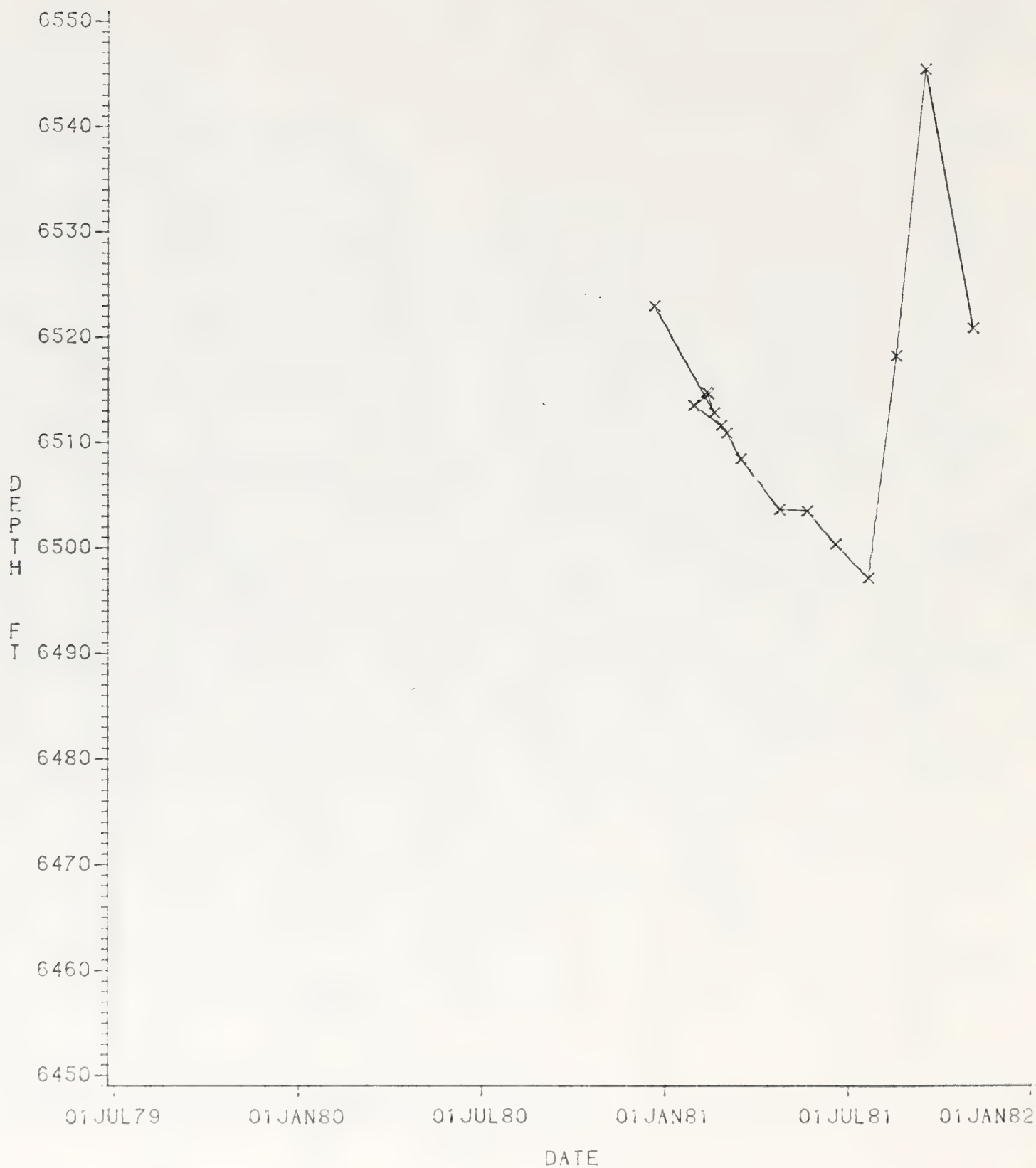
TIME SERIES FOR WELL LEVELS

LOC=WG51



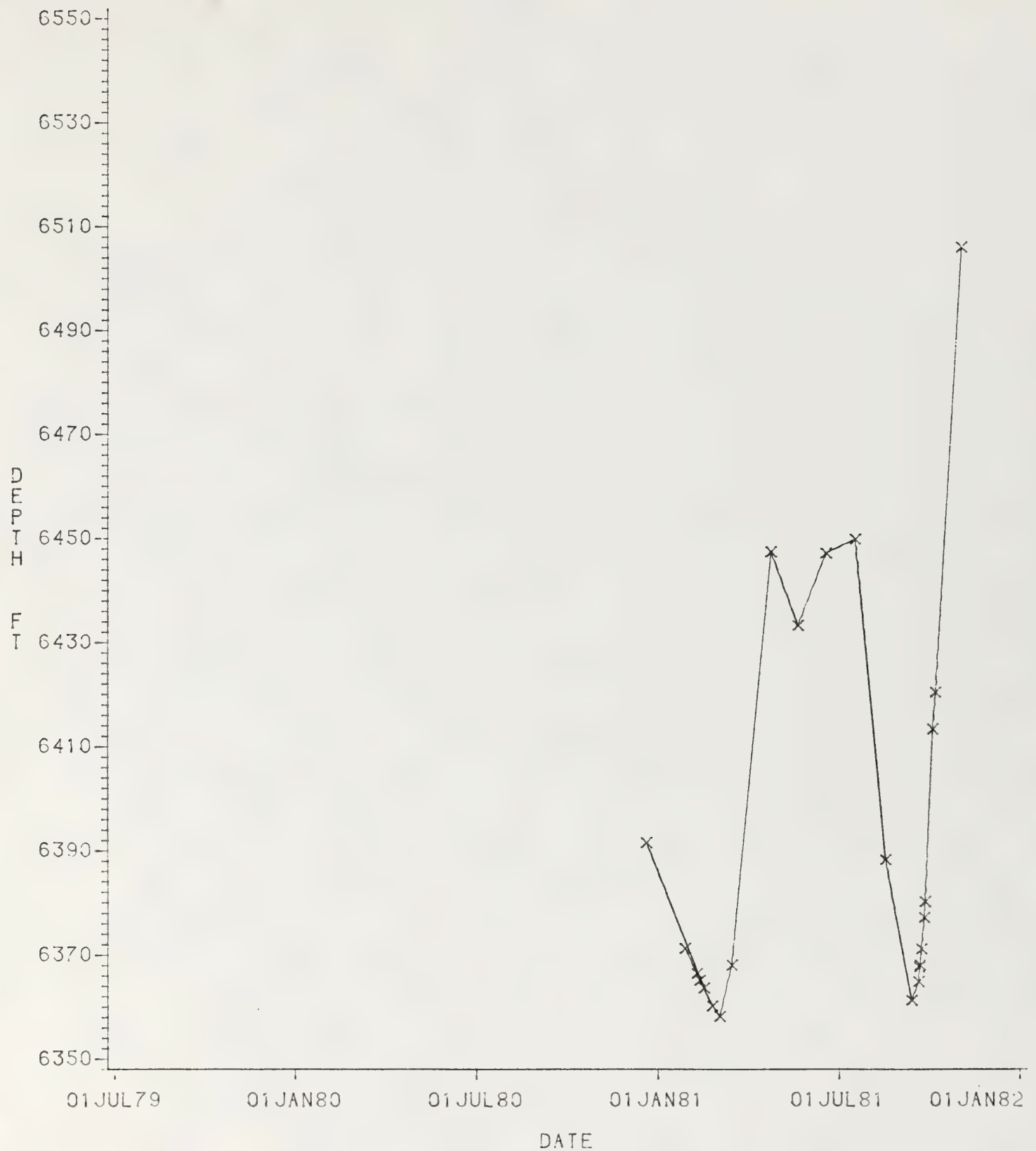
TIME SERIES FOR WELL LEVELS

LOC=WG52



TIME SERIES FOR WELL LEVELS

LOC=WG61



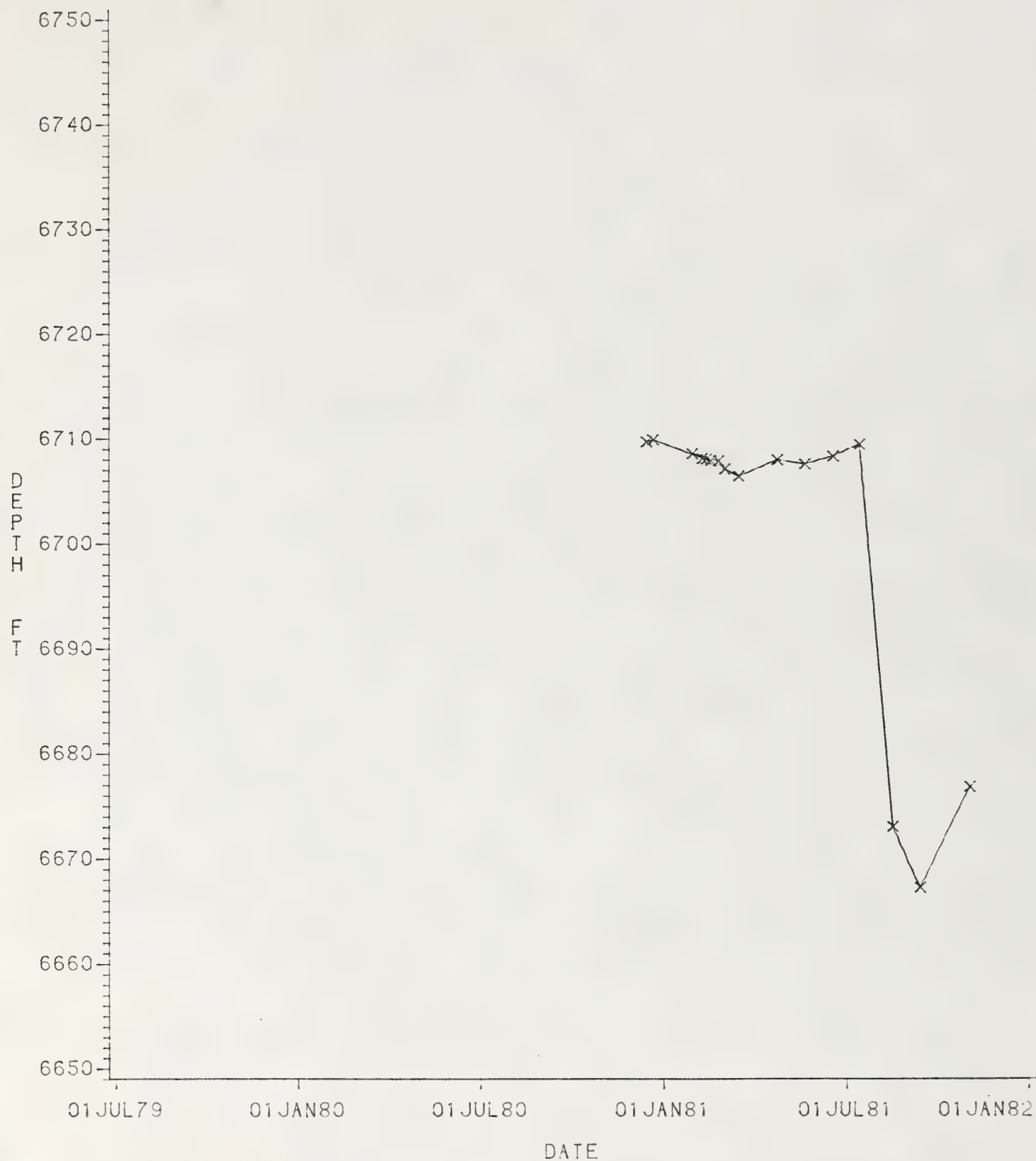
TIME SERIES FOR WELL LEVELS

LOC=WG91



TIME SERIES FOR WELL LEVELS

LOC=WH21



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TABLE 2.2.1.5-6

CB-TRACT *
 STEVENS RECORDER WATER LEVELS FOR LOWER PARACHUTE CREEK
 FOR SAMPLE DATE SHOWN

WG - LPD3

YR	MO	DY	WG12 DEPTH (FT)
81	5	1	6293.17
		2	6292.89
		3	6292.70
		4	6292.54
		5	6292.27
		6	6292.07
		7	6291.85
		8	6292.74
		9	6292.51
		10	6292.04
		11	6291.72
		12	6291.60
		13	6291.52
		14	6291.26
		15	6290.94
		16	6290.69
		17	6290.60
		18	6290.43
		19	6290.13
		20	6289.94
		21	6289.67
		22	6289.49
		23	6289.24
		24	6288.98
		25	6288.80
		26	6288.58
		27	6288.57
		28	6288.12
		29	6287.89
		30	6287.63
		31	6286.39
	6	1	6286.27
		2	6286.04
		3	6285.86
		4	6285.81
		5	6285.60
		6	6285.43
		7	6285.38
		8	6285.19
		9	6285.03
		10	6284.78
		11	6284.79
		12	6284.54
		13	6284.38

* WELL ID - FT FROM GROUND LEVEL

TABLE 2.2.1.5-6 (cont.)

CB-TRACT *
 STEVENS RECORDER WATER LEVELS FOR LOWER PARACHUTE CREEK
 FOR SAMPLE DATE SHOWN

WG - LPD3

YR	MO	DY	WG12 DEPTH (FT)
81	6	14	6284.24
		15	6284.10
		16	6284.02
		17	6283.83
		18	6283.73
		19	6283.56
		20	6283.41
		21	6283.31
		22	6283.38
		26	6280.09
		27	6279.97
		28	6279.78
		29	6279.53
		30	6279.35
	7	1	6279.15
		2	6278.88
		3	6278.60
		4	6278.42
		5	6278.26
		6	6278.04
		7	6277.88
		8	6277.55
		9	6277.36
		10	6277.20
		11	6277.02
		12	6276.87
		13	6276.59
		16	6277.56
		17	6277.64
		18	6277.64
		19	6277.64
		20	6277.64
		21	6277.64
		22	6277.65
		23	6277.64
		24	6277.65
		25	6277.65
		26	6276.85
		27	6276.70
		28	6276.57
		29	6276.49
		30	6276.32
		31	6276.20
	8	1	6276.10

* WELL ID - FT FROM GROUND LEVEL

**IMPOUNDMENTS/
LAND APPLICATION/
REINJECTION/DISCHARGE**

TABLE 2.2.1.5-6 (cont.)

CB-TRACT *
 STEVENS RECORDER WATER LEVELS FOR LOWER PARACHUTE CREEK
 FOR SAMPLE DATE SHOWN

WG - LPD3

YR	MO	DY	WG12 DEPTH (FT)
81	8	2	6276.02
		3	6275.91
		4	6275.74
		5	6275.55
		6	6275.52
		7	6275.27
		8	6275.20
		9	6275.09
		10	6274.95
		11	6274.87
		12	6274.79
		13	6274.64
		14	6274.44
		15	6274.33
		16	6274.25
		17	6274.17
		18	6274.07
		19	6273.87
		20	6273.80
		21	6273.64
		22	6273.59
		23	6273.46
		24	6273.32
		25	6273.21
		26	6273.09
		27	6272.99
		28	6272.90
		29	6272.78
		30	6272.58
		31	6272.57
	9	1	6272.52
		2	6272.40
		3	6272.27
		4	6272.16
		5	6272.09
		6	6271.83
		7	6271.70
		8	6271.54
		9	6271.31
		10	6271.16
		11	6271.02
		12	6270.90
		13	6270.79
		14	6270.65

* WELL ID - FT FROM GROUND LEVEL

TABLE 2.2.1.5-6 (cont.)

CB-TRACT *
 STEVENS RECORDER WATER LEVELS FOR LOWER PARACHUTE CREEK
 FOR SAMPLE DATE SHOWN

WG - LPD3

YR	MO	DY	WG12 DEPTH (FT)
81	9	15	6270.50
		16	6270.32
		17	6270.17
		18	6270.03
		19	6269.89
		20	6270.74
		21	6269.49
		22	6269.22
		23	6268.94
		24	6268.70
		25	6268.41
		26	6268.07
		27	6267.84
		28	6267.45
		29	6267.24
		30	6266.73
	10	1	6266.33
		2	6266.17
		3	6265.82
		4	6265.37
		5	6264.92
		6	6264.60
		7	6264.34
		8	6263.91
		9	6263.39
		10	6263.05
		11	6262.63
		12	6262.17
		13	6261.69
		14	6261.12
		15	6260.89
		16	6260.52
		17	6260.31
		18	6260.07
		19	6259.96
		20	6259.95
		21	6259.82
		22	6259.54
		23	6258.98
		24	6258.78
		25	6258.47
		26	6258.21
		27	6258.11
		28	6257.87
		29	6257.79
		30	6257.29
		31	6256.99
	11	1	6256.82
		2	6256.68
		3	6256.55
		4	6256.32
		5	6256.06
		6	6255.93

* WELL ID - FT FROM GROUND LEVEL

2.2.1.6 Impoundments/Discharges/NPDES/Reinjection

Flow data for this reporting period are presented with the water quality tables in Section 2.2.2.6 in Tables 2.2.2.6-1 (weekly), 2.2.2.6-2 (monthly) and 2.2.2.6-3 (semi-annual) for the A/B discharge point (WN40).

Water Level results of C-b wells monitored during re-injection and V/E Shaft recovery are presented in this section. Time series of pumping rates at the reinjection well (WII8) are presented in Figure 2.2.1.6-1. Location of this well can be found on Exhibit C (Figure 2.2-3). The following tables present data for each aquifer formation monitored:

		<u>Page No.</u>
Table 2.2.1.6-1	Uintah Formation Zone	I-215
Table 2.2.1.6-2	Seepage Wells	I-216
Table 2.2.1.6-3	Upper Parachute Creek 1	I-217
Table 2.2.1.6-4	Upper Parachute Creek 2	I-221
Table 2.2.1.6-5	Lower Parachute Creek	I-223

Continuous monitoring of water discharged at C-b Tract is required by the NPDES permit. These data are reported monthly to the state of Colorado. Table 2.2.1.6-6 references these monthly reports, January 1981 through September 1981, and the corresponding page number.

CB RE-INJECT DATA

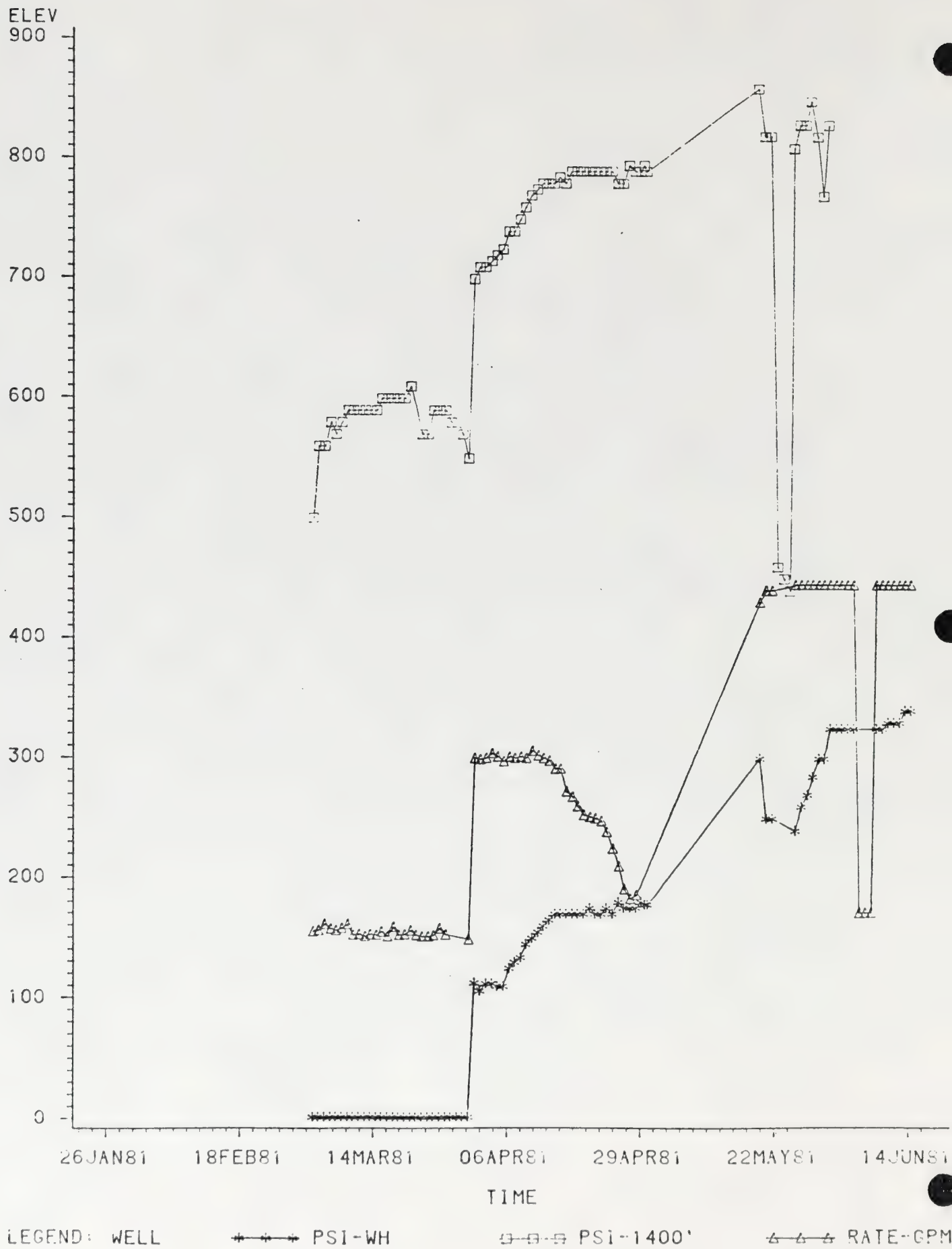


FIGURE 2.2.1-6

Table 2.2.1.6-1

CR-TRACT
REINJECTION WATER LEVELS
UNITAH FORMATION ZONE
FOR SAMPLE DATE SHOWN

YR	MO	DAY	WELL ID	WC17 DEPTH (FT)	WC91 DEPTH (FT)
81	5	1		377.18	353.43
		2		377.20	353.39
		4		377.00	353.59
		6		372.80	353.13
		8		372.80	353.01
		10		375.00	353.21
		12		375.53	352.99
		13		375.75	353.21
		14		375.78	
		15			352.69
		16		375.97	352.71
		18		375.94	353.20
		19		375.93	353.25
		20		375.30	353.02
		21		376.31	353.02
		22		376.37	353.09
		24		376.34	353.12
		27		376.81	353.28
		28		377.21	353.36
		29		377.39	353.40
		30		377.52	353.38
6		1		377.56	353.48
		4		377.69	353.41
		6		377.98	354.73
		8		377.98	353.11
		10		377.86	353.01
		12		377.81	353.06
		14		377.76	353.34
		16		377.87	353.34
		18		378.21	353.11
		20			352.98
		22		378.78	352.90
		24			352.89
		26			352.65
		28			352.63
7		30			352.71
		2			352.22
		6			352.36
		9			352.34
9		10			354.37
		14			354.37
		15			354.44

CR-TRAC
REINJECTION WATER LEVELS FOR SEEPAGE WELLS
FOR SAMPLE DATE SHOWN

Table 2.2.1.6-2

YR	MO	DAY	WM12 DEPTH (FT)	WM13 DEPTH (FT)	WM22 DEPTH (FT)
81	5	1	323.15	157.31	157.31
		2	322.59	157.29	157.29
		4	321.85	157.20	157.20
		6	321.27	157.31	157.31
		8	321.07	157.41	157.41
		10	319.25	157.33	157.33
		12	318.61	157.29	157.29
		13	318.55	157.23	157.23
		15	317.55	157.19	157.19
		16	317.14	157.18	157.18
		18	316.75		
		19	316.54		
		20	632.36	157.03	157.03
		21	316.10		
		22	316.19	157.02	157.02
		24	315.33	157.01	157.01
		27	314.53		
		28	314.34	156.92	156.92
		29	314.16	156.95	156.95
		30	313.89	156.91	156.91
		31	313.20		
		1		156.70	156.70
		2		156.63	156.63
		3			
		4	311.22		
		5	311.21	156.63	156.63
		6	310.91	156.48	156.48
		8	310.67	156.41	156.41
		10	307.49	156.34	156.34
		11	308.77	156.33	156.33
		12	308.63	156.46	156.46
		14	307.82	156.54	156.54
		16	307.15	156.56	156.56
		18	309.09	156.58	156.58
		20	305.85	158.80	
		22	310.87		
		24	301.81		
		26	308.85		
		28	308.19		
		30	308.14		
		31	307.54		
		7	306.00		
		8	305.70		
		9	305.29		
		10	295.59		
		15	295.20		
		22	295.20		
				157.56	157.56

CR-TRACT
REINJECTION WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

Table 2.2.1.6-3

YR	MO	DAY	WD01 DEPTH (FT)	WD02 DEPTH (FT)	WD11 DEPTH (FT)	WD12 DEPTH (FT)	WD14 DEPTH (FT)	WD15 DEPTH (FT)	WD17 DEPTH (FT)	WD18 DEPTH (FT)	WD19 DEPTH (FT)
81	5	1	599.37	395.40	101.01	102.52	406.80	392.24	375.85	469.11	44.99
		2	599.50	395.40	101.03	102.50	406.70	391.11	375.83	469.08	44.94
		4	599.52	395.20	100.88		407.22	391.83	375.83		45.48
		6	599.27	395.20	100.84	102.29	408.49	391.62	375.67	468.84	44.74
		8	599.09	395.30	100.86	102.28	410.03	391.39	375.76	468.81	44.82
		10	599.12	395.60		102.40	411.81	391.26	375.71	468.88	44.94
		12	599.10	395.58	100.86	102.27	413.35	391.07	375.57	468.85	44.68
		13	599.31	395.64	101.00	102.40	413.68	390.88	375.74		44.75
		14							375.75		
		15	599.25	395.57	100.76		415.86	390.60		468.56	44.60
		16	599.10	395.33	100.74	102.08	415.48	390.53	375.48	468.62	44.46
		18	599.19	395.06	100.72	102.33	417.23	390.39	375.75	468.94	44.64
		19	599.22	395.03	100.71		417.85	390.27	375.76	468.82	
		20		790.28	100.85		418.68	390.21	375.56	468.71	44.32
		21	599.39		100.80	102.31	419.26	390.09	375.59	468.79	
		22	599.43	395.35	100.82	102.40	419.77	390.03	375.62	468.58	44.23
		24	599.51	395.43	100.83		420.50	389.89	375.65	468.47	
		26	599.64	395.50			420.78	389.75			
		27	599.78	395.65	100.83	102.29	420.93	389.60	375.66	468.86	42.37
		28	599.79	395.79	100.88	102.29	421.49	389.58	375.65	468.91	43.06
		29	599.79	395.99	100.85	102.25	420.87	389.56	375.72	468.99	42.82
		30	599.98	395.68	100.81	102.26	420.78	389.48	375.61	468.99	42.76
		1	600.04	395.60	100.79	102.11	418.80	389.22	375.58	468.99	42.69
		2	599.94	395.57	100.68		416.04	389.07			
		4	600.03	395.62	100.66	102.00	412.43	388.96	375.62	468.84	42.25
		6	599.72	395.46	100.51	101.96	403.06	388.68	375.60	468.85	42.30
		8	599.99	395.37	100.46	101.96	402.26	388.53	375.63	468.19	42.35
		10	600.56	395.25	100.41	101.89			375.48	468.72	42.46
		12	600.99	395.17	100.47	101.94	401.62	388.14	375.50	468.63	42.68
		14	601.07	395.21	100.59	102.03	399.70	388.02	375.54	468.73	42.84
		16	601.13	395.19	100.46	101.91	397.08	387.66	375.67	468.98	42.92
		18	600.55	395.62	100.45	101.81	394.18	387.43	375.63	468.46	
		20	600.89	394.91	100.47	101.85	391.35	387.16	375.59	468.84	43.11
		22	599.89	394.75	100.35	101.82	388.30	387.07	375.57	468.89	42.99
		24	600.36	394.73	100.37	101.82	385.25	386.52	375.61	468.92	
		26	599.96	394.70	100.20		382.57	386.21	375.91	468.78	42.98
		28	599.92	394.37	100.18	101.64	382.31	385.85	375.99	468.89	43.09
		30	599.92	394.21	100.16	101.60	383.19	385.55	375.83	468.87	43.14
		1	599.87	394.19	100.06	101.48	385.01	384.86			
		6		394.15					375.33	468.65	43.25
		7			99.58	101.49	388.88	384.53	375.27	468.39	
		8		394.26	99.42	101.51	390.57	384.27	375.48	468.82	42.92
		9			99.35	101.88					

CR-TRACT
REINJECTION WATER LEVELS
UPPER PAPACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

Table 2.2.1.6-3 (cont)

YR	MO	DAY	WD01 DEPTH (FT)	WD02 DEPTH (FT)	WD11 DEPTH (FT)	WD12 DEPTH (FT)	WD14 DEPTH (FT)	WD15 DEPTH (FT)	WD17 DEPTH (FT)	WD18 DEPTH (FT)	WD19 DEPTH (FT)
81	9	14		391.61	98.69	101.43	423.88	410.86			43.92
		15		391.21	97.40	99.84				483.33	
		18					424.06	410.81			
		22		390.30			423.12	410.79			
		24		389.84			423.17	410.75			

CB-TRACT
REINJECTION WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

Table 2.2.1.6-3 (cont)

YR	MO	DAY	WD20 DEPTH (FT)	WD21 DEPTH (FT)	WD41 DEPTH (FT)	WD51 DEPTH (FT)	WD52 DEPTH (FT)	WD57 DEPTH (FT)	WD61 DEPTH (FT)	WD90 DEPTH (FT)	WD91 DEPTH (FT)
81	5	1	134.72	103.34	391.37		318.75	395.35	389.86	331.24	388.43
		2	134.55	103.30	391.68		318.44	395.21	389.18	330.46	388.39
		3					318.44				
		4	134.79	103.40	392.74		318.44	395.08	389.13	330.20	388.10
		6	134.93	103.33	393.52		318.23	395.05	388.90	327.39	388.00
		8	134.97	103.18	394.43		318.43	395.06	388.77	329.00	387.77
		10	134.98	103.40	395.37		318.63	395.20	389.03	328.75	387.79
		12	133.55	103.38			318.45	395.06	388.61	328.02	387.60
		13	133.61	103.64			318.72	395.20	388.77	328.03	387.65
		14						395.09		326.90	
		15	133.65	103.44			318.25		388.34		387.58
		16	133.63	103.42			318.31	394.94	388.27	326.66	387.65
		18	133.23	103.89	398.43	259.28	318.71	394.97	388.38	326.26	387.60
		19		103.54	398.49	259.22	318.77	394.99	388.72	326.37	387.57
		20		103.81	398.71	258.72	318.77	395.02	388.76	325.76	387.66
		21		103.84			318.79	394.98	388.58	325.62	387.63
		22		103.86	398.34		319.05	395.01	388.75	325.65	387.60
		24		103.91	397.68		318.99	394.99	388.88	325.00	387.62
		26			397.93				388.72		
		27	132.65	104.25	397.56		319.16	394.98	388.68	324.28	387.92
		28	132.58	104.32	397.12		319.24	395.02	388.82	324.00	388.07
		29	133.13	104.34	396.74		319.19	395.25	388.74	324.04	388.09
		30	133.34	104.31	395.60		319.08	395.23	388.77	323.70	388.12
			133.68				318.92	395.21			
	6	1		104.30	392.22				388.79	325.25	388.30
		2		104.19	390.33		318.68	395.19	388.80	324.82	
		4			389.70				388.79	324.20	
		5	132.71	103.97	390.44		318.27	395.25	388.81	323.47	388.19
		6		103.84	392.64		317.74	395.13	388.16	322.80	388.09
		8		103.75	392.64		317.68	395.09	387.98	322.21	387.89
		10	132.31	103.53	391.41		317.45	395.05	387.95	321.73	387.72
		12	132.50	103.45	389.58		317.34	395.30	387.18	321.25	387.65
		14	132.97	103.45	388.14		316.80	395.25	387.75	320.43	387.52
		16	132.78	103.19	386.42		316.29	395.28	387.34	319.63	387.40
		18		102.94	384.54		315.93	395.20	387.06	319.63	387.21
		20	132.17	102.76	382.63		315.70	395.30	387.00	318.45	387.03
		22	132.35	102.57	380.86				386.51	317.55	386.84
		24	131.00	102.47	381.96		314.63	395.34	385.84	316.48	386.60
		26	131.90	102.23	382.73		314.53	395.23	385.56	316.18	386.32
		28	131.23	102.10	383.66		314.42	395.21	385.12	315.65	386.05
		30	131.29	102.03	384.42				384.41		385.57
		7		101.94	385.55						
		9					314.25	395.29	384.12	314.00	385.29
			131.15	101.92	386.22		314.41			313.99	

CR-TRACT
REINJECTION WATER LEVELS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATE SHOWN

Table 2.2.1.6-3 (cont)

YR	MO	DAY	WD20 DEPTH (FT)	WD21 DEPTH (FT)	WD41 DEPTH (FT)	WD51 DEPTH (FT)	WD52 DEPTH (FT)	WD57 DEPTH (FT)	WD61 DEPTH (FT)	WD90 DEPTH (FT)	WD91 DEPTH (FT)
81	7	10	130.94	101.96	386.78		314.43	395.32	383.89	313.47	385.22
	9	14	129.56					395.31			
		10							384.05		388.07
		14	105.31	106.41					384.07		388.15
		15	100.45	106.52	400.87		328.81		384.25	300.21	388.22
		18							383.84	298.66	
		22			398.48				383.96	298.52	
		23	93.19		397.97				383.98	298.24	
		24			397.80						

CB-1 CT
REINJECTION WATER LEVELS
UPPER PARACHUTE - CREFK 2
FOR SAMPLE DATE SHOWN

Table 2.2.1.6-4

YR	MO	DAY	WE03 DEPTH (FT)	WE04 DEPTH (FT)	WE11 DEPTH (FT)	WE17 DEPTH (FT)	WE18 DEPTH (FT)	WE20 DEPTH (FT)	WE21 DEPTH (FT)	WE41 DEPTH (FT)	WE51 DEPTH (FT)	WE52 DEPTH (FT)	WE61 DEPTH (FT)	WE91 DEPTH (FT)
81	5	1	463.80	402.73	106.02	438.18	469.36	28.42	105.35		388.25	355.44	389.49	410.89
		2	463.70	402.44	106.05	438.15	469.35	28.76	105.34		388.28	355.94	389.29	410.82
		3	463.66	402.56	105.98	438.01	469.28	30.01	105.34		388.49	355.74	388.94	410.81
		4	463.52	402.25	106.00	437.90	469.15	31.00	105.26		388.99	362.75	388.73	410.94
		6	463.42	402.24	105.99	437.81	469.12	31.52	105.23		389.47	365.31	388.58	411.18
		8	463.39	402.30	105.00	437.67	469.10	32.93	105.52		390.14	367.11	388.80	411.74
		10	463.38	402.04	105.94	437.57	468.99	34.02	105.57		390.68	368.58	388.55	411.99
		12	463.28	402.27	105.92	437.55	468.99	34.81	105.78		391.04	369.86	388.62	411.20
		13	463.17			437.46		35.00			391.76			
		14	463.11	401.88	105.88	437.39	469.31	35.20	105.71		392.11	371.11	388.58	412.30
		15	463.22	401.80	105.85	437.25	469.29	34.93	106.12		392.11	371.78	388.66	412.35
		16	463.06	401.97	105.83	437.24	469.63		106.19	428.40	785.86	373.40	388.57	412.84
		18	463.02	401.86	105.80	437.24	469.58		106.14	428.77	786.52	374.08	388.56	412.97
		19	463.02	401.86	105.80	437.24	469.58		106.14	429.19		374.67	388.51	
		20	463.02	401.71	105.87	437.19	469.50		106.34			375.16	388.70	413.19
		21	463.06	401.70	105.79	437.12	469.56		106.29	422.42	393.47	375.32	388.70	413.07
		22	462.94	401.75	105.75	437.08	469.68		106.21	419.58	393.03	375.41	388.67	413.04
		24	462.92	401.80	105.71	437.03	469.66		106.33	424.02		375.41	388.56	
		26	462.82	401.65	105.77	436.89	469.71	41.47	106.73	420.77	393.16	375.18	388.49	412.84
		27	462.79	401.63	105.86	436.85	469.70	41.58	106.90	420.56	392.83	375.11	388.49	412.84
		28	462.73	401.71	105.80	436.83	469.79	42.10	106.93	416.56	392.19	374.57	388.59	412.76
		29	462.00	401.64	105.80	436.75	469.77	43.37	106.80	413.76	390.91	372.96	388.63	412.72
		30	462.72	401.60	105.76	436.73	469.75	44.46		408.05	386.27	371.29		
	6	1	462.32	401.49	105.70	436.47	469.79		106.66	396.67			388.55	411.06
		2	462.64	401.48	105.75	436.52	469.70		106.56	392.14	382.12	362.81	388.70	
		3	462.81	401.24	105.64	436.38	469.54	46.58	106.31	390.19	380.44	359.20	388.85	409.69
		4	462.15	401.21	105.61	436.37	469.54	49.00	106.09	390.79	379.65	362.85	388.93	407.04
		5	462.03	401.08	105.59	436.28	469.48	50.06	105.69	398.61	378.85	357.59	387.22	407.70
		6	462.05	401.16	105.56	436.25	469.55	51.55	105.48	392.78	375.80	353.59	387.71	407.44
		7	461.99	401.16	105.56	436.14	469.81	52.82	105.49	384.55	372.54	350.91	388.33	407.44
		8	461.94	401.08	105.52	436.08	469.71	53.39	105.12	378.07	369.77	348.02	388.01	406.98
		9	461.87	401.00	105.53	435.99	469.66	53.70	104.82	375.88	366.52	344.91	387.11	403.43
		10	461.87	400.94	105.50	435.95	469.70	55.51	104.56	370.03	361.86	341.71	386.83	403.43
		11			105.52	435.80	469.70	55.00	104.22	367.59	358.51	338.41	386.49	402.04
		12			105.52	435.80	469.71	56.38	104.00	367.44	356.25	338.41	386.49	402.04
		13			105.47	435.76	469.80	56.38	103.81	370.53	355.68	335.82	386.49	400.60
		14			105.45	435.74	469.78	57.35	103.64	378.53	355.52	337.29	386.49	399.30
		15			105.44	435.74	469.78	57.67	103.54	383.16	355.43	339.11	386.49	399.72
		16			105.34	435.61	469.80	57.67	103.54	386.88	355.43	339.11	386.49	401.03
		17				435.61	469.80		103.68	391.64		344.41	384.27	
		18				435.70	469.81	57.70		393.88	354.83	344.41	384.27	
		19			105.32				103.85		354.68	346.33		402.03

CR-1 .CT
REINJECTION WATER LEVELS
UPPER PARACHUTE - CREEK 2
FOR SAMPLE DATE SHOWN
Table 2.2.1.6-4 (cont)

YR	MO	DY	WE03 DEPTH (FT)	WE04 DEPTH (FT)	WE11 DEPTH (FT)	WE17 DEPTH (FT)	WE18 DEPTH (FT)	WE20 DEPTH (FT)	WE21 DEPTH (FT)	WE41 DEPTH (FT)	WE51 DEPTH (FT)	WE52 DEPTH (FT)	WE61 DEPTH (FT)	WE91 DEPTH (FT)
81	7	10	461.32	400.38	105.29	435.55	469.88	57.48	104.01	395.51	354.27	347.01	383.71	402.32
	9	14			105.65			61.58						410.34
		10			105.10			122.00	145.43				383.86	410.46
		14			104.31			113.50	145.61	431.15	660.00	346.24	383.33	410.62
		15	455.92	400.24			483.83						384.08	
		18						105.48		412.22	637.93		383.68	
		21						102.66		413.23			383.80	
		22								413.89	619.58		383.86	
		23												
		24												

Table 2.2.1.6-5

CB-TRACT
REINJECTION WATER LEVELS FOR LOWER PARACHUTE CREEK
FOR SAMPLE DATE SHOWN

WG - LPD3			WH - LPC4									
YR	MO	DAY	WG12 DEPTH (FT)	WG17 DEPTH (FT)	WG18 DEPTH (FT)	WG21 DEPTH (FT)	WG41 DEPTH (FT)	WG51 DEPTH (FT)	WG52 DEPTH (FT)	WG61 DEPTH (FT)	WG91 DEPTH (FT)	WH21 DEPTH (FT)
81	5	1	135.32	438.66	535.09	105.15	412.88	299.81	399.32	437.73	483.73	104.93
		2	135.66	438.58	535.11	105.12	419.09	300.51	399.34	437.80	483.68	104.91
		3							399.19			
		4		438.52	535.13	105.07	429.39	301.73	399.19	439.02	483.47	104.90
		6	136.23	438.32	534.89	105.00	437.94	303.21	399.06	440.51	483.33	104.81
		8	136.59	438.26	535.03	105.05	445.07	304.64	398.83	442.92	483.28	104.84
		10	136.09	438.16	535.06	105.31	452.25	306.35	398.92	445.97	483.49	105.12
		12	136.68	438.03	534.97	105.36		308.06	399.01	448.47	483.53	105.16
		13	137.00	437.96		105.58			399.19	449.39	483.70	105.42
		14		437.89								
		15			534.84	105.51			399.16	453.10	483.31	105.27
		16	137.38	437.91	534.85	105.51			399.11	452.77		105.31
		18	138.12	437.70	535.03	106.03		312.33	399.45	457.67	484.08	105.81
		19		437.71	534.98	106.00	471.11	626.17	399.44	458.99	483.84	105.76
		20		437.60	534.97	106.10	467.09		399.45		484.26	105.89
		21		437.57	534.92	106.05			399.48		484.09	105.84
		22	138.76	437.53	534.98	106.11	465.86	314.80	399.54		484.30	105.91
		24	139.42	437.48	534.95	106.15	458.49	315.07	399.59		484.48	105.95
		26								470.99		
		27	139.96	437.34	535.00	106.52	470.95	316.22	399.85	471.76	484.86	106.29
		28	140.19	437.30	534.99	106.67	476.13	316.19	399.94	472.68	485.08	106.53
		29	140.32	437.23	535.12	106.53	466.01	315.91	400.54	473.26	485.20	106.49
		30	140.66	437.21	535.04	106.60	463.01	314.92	400.75	473.72	485.43	106.41
		31		437.19	535.07		450.85	312.26	400.99			
	6	1	142.45			106.56	434.59	312.26		467.90		105.33
		2		436.96	535.01	106.39	425.29	308.38	401.27	460.58	486.13	106.35
		4					422.60	307.06		457.49		
		5					418.95	306.22		454.64		
		6	144.01	436.94	535.06	106.10	422.07	305.62	401.47	450.93	486.26	105.95
		8	143.30	436.77	534.91	105.90	422.07	305.62	401.33	450.23	486.04	105.74
		10	143.51	436.78	534.96	105.77	426.17	308.72	401.85	450.01	486.36	105.58
		12	144.00	436.70	535.00	105.44	424.19	304.21		447.48	486.61	105.31
		14	144.25	436.55	535.03	105.31	418.93	302.05	402.20	443.78	486.74	105.13
		16	144.51	436.53	535.15	105.28	401.41	299.15	402.53	439.13	486.73	104.75
		18	144.58	436.45	535.06	104.94	401.41	295.56	402.61		486.59	104.42
		20	145.07	436.43	535.02	104.61	394.08	292.47	402.73	430.74	486.60	104.19
		22	145.32	436.35	535.02	104.34	388.40	287.90	403.03	424.55	486.68	103.88
		24	145.72		535.02	103.84	380.70	283.73	403.34	420.87	486.64	103.67
		26					380.67	280.04		419.87	485.18	103.43
		28		436.25	534.99	103.64	390.29	280.26	403.60	421.70	485.75	103.20
		30	149.42	436.15	535.13	103.43	408.29	283.68	404.03	423.84	486.04	103.20
		31	149.82	436.21	535.02	103.37	420.97	282.29	404.05	428.62	484.98	103.31
		7	150.74			103.50						
		8	151.18	436.05	534.94		425.97	282.29	403.95	430.88		
				436.19	534.90			282.68	403.93			

Table 2.2.1.6-5 (cont)

CR-TRACT
REINJECTION WATER LEVELS FOR LOWER PARACHUTE CREEK
FOR SAMPLE DATE SHOWN

WG - LPD3

WH - LPC4

YR	MO	DAY	WG12 DEPTH (FT)	WG17 DEPTH (FT)	WG18 DEPTH (FT)	WG21 DEPTH (FT)	WG41 DEPTH (FT)	WG51 DEPTH (FT)	WG52 DEPTH (FT)	WG61 DEPTH (FT)	WG91 DEPTH (FT)	WH21 DEPTH (FT)
81	7	9	151.58	436.01	535.06	103.55	430.82	283.43	403.85	433.13	484.84	103.34
	9	10	157.68			103.81					484.80	103.69
		14	158.00			145.25		507.89	357.24	528.78	499.48	145.65
		15	158.26	496.77		145.51		459.44		529.49	500.88	146.09
		18								531.57		
		22								525.84		
		23								523.04		
		24						443.50		522.63		

TABLE 2.2.1.6-6

CONTINUOUS DISCHARGE DATA FOR C-b TRACT

	<u>Page No.</u>
Water Discharge - Month of January 1981	I-226
Water Discharge - Month of February 1981	I-227
Water Discharge - Month of March 1981	I-228
Water Discharge - Month of April 1981	I-229
Water Discharge - Month of May 1981	I-230
Water Discharge - Month of June 1981	I-231
Water Discharge - Month of July 1981	I-232
Water Discharge - Month of August 1981	I-233
Water Discharge - Month of September 1981	I-234

WATER DISCHARGE - MONTH OF JANUARY 1981

1/1/81 - 1/31/81 (Continuous Discharge)

PICEANCE CREEK FLOW

	<u>Hunter Creek Station</u>	<u>No Name Station</u>
Maximum:	18,816 gpm	9,139 gpm
Minimum:	3,696 gpm	3,911 gpm
Average:	5,824 gpm	6,317 gpm

Maximum Discharge Flow: 1,389 gpm
Average Discharge Flow: 1,304 gpm
Total Discharge: 58,200,000 gallons.

1/31/81 Pond A: 1,400,000 gallons
 Pond B: 1,500,000 gallons
 Pond C: Empty

Total pumped to Pond C: None
Total used to sprinkle: None
Sulfuric Acid used: 7,746 gallons
Flocculant used: 124 gallons
Pond water pumped to
 P/S Gland Seal: 5,604,460 gallons
Pond water pumped to
 V/E Gland Seal: 7,262,330 gallons
Water pumped from
 P/S Shaft: 26,046,127 gallons
Water pumped from
 V/E Shaft: 47,118,100 gallons

Water Hauled (gallons)

<u>From</u>		<u>To</u>				
<u>Creek Well</u>	<u>Ponds</u>	<u>V/E</u>	<u>P/S</u>	<u>BP</u>	<u>Dust Control</u>	<u>Construction</u>
268,000	45,500	47,000	96,000	138,000	18.5	14,000

Weekly Discharge Samples

<u>Date</u>	<u>pH</u>	<u>T.S.S. ppm</u>	<u>Fluoride ppm</u>
1/07/81	7.1	9	17.6
1/14/81	7.3	9	24.3
1/21/81	7.0	8	18.8
1/28/81	8.2	16	17.5

C-b Project
CENTRAL RECORDS
Rec'd FEB 9 1981

FILE_____

JWJ/pb (2/6/81)

cc: E. B. Baker
 S. L. Stringer
 C. B. Central Records

2/1/81 - 2/28/81

(Continuous Discharge)

PICEANCE CREEK FLOW

	<u>Hunter Creek Station</u>	<u>No Name Station</u>
Maximum:	22,848 gpm	7,392 gpm
Minimum:	2,173 gpm	3,180 gpm
Average:	8,960 gpm	5,421 gpm

Maximum Discharge Flow: 1,368 gpm
 Average Discharge Flow: 1,067 gpm
 Total Discharge: 43,030,000 gallons

2/28/81 Pond A: 1,400,000 gallons
 Pond B: 1,400,000 gallons
 Pond C: 1,300,000 gallons

Total pumped to Pond C: 7,345,860 gallons
 Total used to sprinkle: None
 Sulfuric Acid used: 5,768 gallons
 Flocculant used: 112 gallons
 Pond water pumped to
 P/S Gland Seal: 5,611,755 gallons
 Pond water pumped to
 V/E Gland Seal: 5,709,730 gallons
 Water pumped from
 P/S Shaft: 23,141,400 gallons
 Water pumped from
 V/E Shaft: 43,730,400 gallons

C-b Project
CENTRAL RECORDS

Rec'd MAR 6 1981

FILE

Water Hauled (Gallons)

FROM		TO				
Creek Well	Ponds	V/E	P/S	BP	Dust Control	Construction
200,600	57,000	35,500	92,800	43,000	72,500	13,800

Weekly Discharge Samples

<u>Date</u>	<u>pH</u>	<u>T.S.S. ppm</u>	<u>Fluoride ppm</u>
2/04/81	7.6	7	18.5
2/11/81	6.7	14	17.7
2/18/81	8.0	41	18.4
2/25/81	8.2	16	20.5

JWJ/mbd (3/05/81
 c: E. B. Baker
 S. L. Stringer
 C. B. Central Records

(Continuous Discharge)

PICEANCE CREEK FLOW

Maximum:
Minimum:
Average:

Hunter Creek Station

8,460 GPM
1,013 GPM
2,723 GPM

No Name Station

10,215 GPM
4,028 GPM
5,850 GPM

Maximum Discharge Flow:
Average Discharge Flow:
Total Discharge:

1,451 GPM
754 GPM
33,670,000 Gallons

Pond A: 1,400,000 Gallons
Pond B: 1,500,000 Gallons
Pond C: 1,200,000 Gallons

Total pumped to Pond C: 17,762,500 Gallons
Total used to sprinkle: None
Sulfuric Acid used: 7,622 Gallons
Flocculant used: 124 Gallons
Pond water pumped to P/S Gland Seal: 5,481,395 Gallons
Pond water pumped to V/E Gland Seal: 6,236,630 Gallons
Water pumped from P/S Shaft: 28,436,000 Gallons
Water pumped from V/E Shaft: 33,442,880 Gallons
Water Rejected: 6,238,400 Gallons

C-4b Project
CENTRAL RECORDS

Rec'd APR 2 1981

FILE

Water Hauled (Gallons)

FROM		TO				
Creek Well	Ponds	V/E	P/S	BP	Dust Control	Construction
264,000	28,000	46,500	88,000	111,550	18,000	28,000

Weekly Discharge Samples

Date

pH

T.S.S. ppm

Fluoride ppm

3/25/81
3/18/81
3/11/81
3/04/81

6.9
7.1
6.4
7.9

7.5
9.8
7.8
8.0

17.6
17.2
17.4
18.1

c: E. B. Baker
S. L. Stringer
C. B. Central Records

(Continuous Discharge)

PICEANCE CREEK FLOW

	<u>Hunter Creek Station</u>	<u>No Name Station</u>
Maximum:	11,430	14,085
Minimum:	< 174	1,224
Average:	2,856	4,230

Maximum Discharge Flow: 729
 Average Discharge Flow: 583
 Total Discharge: 25,200,000

On last day of month (Pond A: 1,600,000
 (Pond B: 1,500,000
 (Pond C: 1,300,000

Total pumped to Pond C: 21,492,250
 Total used to sprinkle: NONE
 Sulfuric Acid used: 4,326
 Flocculant used: 120
 Pond water pumped to P/S Gland Seal: 5,228,060
 Pond water pumped to V/E Gland Seal: 6,189,290
 Water pumped from P/S Shaft: 21,859,200
 Water pumped from V/E Shaft: 36,943,520
 Water Reinjecting: 11,259,190

C-b Project
 CENTRAL RECORDS

Rec'd MAY 5 1981

FILE

Water Hauled (Gallons)

FROM		TO				
Creek Well	Ponds	V/E	P/S	BP	Dust Control	Construction
265,850	270,000	37,800	35,060	140,000	295,500	27,490

Weekly Discharge Samples

<u>Date</u>	<u>pH</u>	<u>T.S.S. ppm</u>	<u>Fluoride ppm</u>
4/01/81	8.9	8.9	18.1
4/08/81	8.2	9.0	18.0
4/15/81	8.0	11.3	16.5
4/22/81	8.7	43.4	17.4
4/29/81	7.72	10.8	18.9

JWJ/mbd (May 4, 1981)

c: E. B. Baker

S. L. Stringer

I-229

C. B. Central Records

(Continuous Discharge)

PICEANCE CREEK FLOWHunter Creek StationNo Name Station

Maximum:	11,641 GPM	9,262 GPM
Minimum:	1,750 GPM	1,861 GPM
Average:	5,902 GPM	4,063 GPM

Maximum Discharge Flow:	1,494 GPM	Pond A:	1,700,000 Gallons
Average Discharge Flow:	1,109 GPM	Pond B:	1,500,000 Gallons
Total Discharge:	49,505,760 Gallons	Pond C:	1,300,000 Gallons

Injection Chemical Used:	70 Gallons
Total Pumped to Pond C:	11,507,700 Gallons
Total Used to Sprinkle:	None
Sulfuric Acid Used:	5,562 Gallons
Flocculant Used:	155 Gallons
Pond Water Pumped to P/S Gland Seal:	5,574,570 Gallons
Pond Water Pumped to V/E Gland Seal:	6,416,700 Gallons
Water Pumped from P/S Shaft:	26,784,000 Gallons
Water Pumped from V/E Shaft:	45,964,200 Gallons
Water Reinjected:	2,735,808 Gallons
Total Sewage Treated:	141,000 Gallons
(10%) Chlorine Used for Sewage:	30 Gallons

C-b Project
CENTRAL RECORDS

Rec'd JUN 3 1981

FILE

Water Hauled (Gallons)

FROM		TO				
Creek Well	Ponds	V/E	P/S	BP	Dust Control	Construction
299,500	373,500	49,000	51,400	145,500	396,000	31,000

Weekly Discharge Samples

Date	pH	T.S.S. (ppm)	Fluoride ppm
5/06/81	7.67	18.3	17.3
5/14/81	8.2	18.0	18.3
5/20/81	8.13	7.5	19.6
5/27/81	8.52	5.5	18.4

Weekly Sewage Test

Date	pH	T.S.S. (ppm)	Chlorine Residual (ppm)
5/05/81	8.0	17	0.4
5/14/81	8.1	44	1.7
5/22/81	8.4	8	1.0
5/27/81	8.2	8	0.3

JWJ/mbd (6/2/81)

c: E. B. Baker
S. L. Stringer

W. Wells
C. B. Central Records

(Continuous Discharge)

PICEANCE CREEK FLOWHunter Creek StationNo Name Station

Maximum:	8,190	18,000
Minimum:	450	1,575
Average:	2,182	3,375

Maximum Discharge Flow:	1,150	Pond A:	1,600,000)	On last
Average Discharge Flow:	745	Pond B:	1,500,000)	day of
Total Discharge:	32,184,000	Pond C:	1,300,000)	month.

Injection Chemical Used:	120 gallons
Total Pumped to Pond C:	31,937,500
Total Used to Sprinkle:	8,424,000
Sulfuric Acid Used:	1,400 gallons
Flocculant Used:	120
Pond Water Pumped to P/S Gland Seal:	4,876,700
Pond Water Pumped to V/E Gland Seal:	4,806,950
Water Pumped from P/S Shaft:	21,083,460
Water Pumped from V/E Shaft:	31,346,010
Water Reinjected:	12,600,000
Total Sewage Treated:	142,000 gallons
(10%) Chlorine Used for Sewage:	15 gallons
Coherex used:	1,500 gallons

C-b Project
CENTRAL RECORDS

Rec'd JUL 13 1981

FILE _____

Water Hauled (Gallons)

FROM		TO				
Creek Well	Ponds	V/E	P/S	BP	Dust Control	Construction
322,000	481,200	48,400	61,000	121,500	540,000	32,300

Weekly Discharge Samples

Date	pH	T.S.S. (ppm)	Fluoride (ppm)
6/03/81	8.68	10	17.3
6/10/81	8.7	14	17.5
6/17/81	9.0	9.4	16.8
6/24/81	8.91	4.5	21.0

Weekly Sewage Test

Date	pH	T.S.S. (ppm)	Chlorine Residual (ppm)
6/03/81	8.09	32	0.4
6/10/81	8.06	2	0.4
6/17/81	8.25	10	1.5
6/24/81	8.23	9	.3

JWJ/mdb (7/9/81)

c: E. B. Baker
S. L. Stringer

G. Ullinskey
W. Wells

I-231

C. B. Central Records

(Continuous Discharge)

PICEANCE CREEK FLOWHunter Creek StationNo Name Station

Maximum:	7,034 GPM	4,010 GPM
Minimum:	3,696 GPM	2,240 GPM
Average:	5,600 GPM	3,494 GPM

Maximum Discharge Flow:	1,494 GPM	Pond A:	1,700,000 Gallons
Average Discharge Flow:	739 GPM	Pond B:	1,500,000 Gallons
Total Discharge:	32,999,599 Gallons	Pond C:	1,300,000 Gallons

Injection Chemical Used:	0 Gallons
Total Pumped to Pond C:	27,989,000 Gallons
Total Used to Sprinkle:	15,127,200 Gallons
Sulfuric Acid Used:	1,648 Gallons
Flocculant Used:	130 Gallons
Pond Water Pumped to P/S Gland Seal:	5,182,740 Gallons
Pond Water Pumped to V/E Gland Seal:	5,172,640 Gallons
Water Pumped from P/S Shaft:	24,315,460 Gallons
Water Pumped from V/E Shaft:	45,987,030 Gallons
Water Reinjected:	1,672,960 Gallons
Total Sewage Treated:	140,140 Gallons
(10%) Chlorine Used for Sewage:	5 Gallons
Dust Control Chemical:	5,000 Gallons (Coherex)
	4,000 Gallons (Nalco Dus-Ban 8806)

C-b Project
CENTRAL RECORDS

REC'D AUG 13 1981

FILE

Water Hauled (Gallons)

FROM		TO				
Creek Well	Ponds	V/E	P/S	BP	Dust Control	Construction
342,000	1,526,500	42,900	195,800	90,500	346,000	1,193,300

Weekly Discharge Samples

<u>Date</u>	<u>pH</u>	<u>T.S.S. (ppm)</u>	<u>Fluoride (ppm)</u>
7/01/81	8.74	6.3	18.2
7/08/81	8.77	23.4	18.4
7/15/81	8.92	4.5	17.9
7/22/81	8.36	6.8	Instrument Failure
7/29/81	8.66	4.1	Instrument Failure

Weekly Sewage Test

<u>Date</u>	<u>pH</u>	<u>T.S.S.</u>	<u>Bod₅ PPM</u>	<u>Fecal Coliform</u>	<u>Chlorine Residual PPM</u>
7/07/81	8.23	8	31	1	.4
7/15/81	8.19	22	11	0	.6
7/23/81	8.02	18	2	0	2.5
7/29/81	8.23	18	19	1	.6

JWJ/mdb (8/6/81)

c: E. B. Baker
S. L. Stringer
C. B. Central Records

G. Ullinskey
W. Wells

I-232

(Continuous Discharge)

PICEANCE CREEK FLOWHunter Creek StationNo Name Station

Maximum:	11,405 GPM	4,849 GPM
Minimum:	3,363 GPM	1,572 GPM
Average:	7,319 GPM	3,269 GPM

Maximum Discharge Flow: 1,520 GPM
 Average Discharge Flow: 942 GPM
 Total Discharge: 42,040,000 Gallons

Pond A: 1,500,000
 Pond B: 1,500,000
 Pond C: 1,500,000

Injection Chemical Used:	0
Total Pumped to Pond C:	26,060,590 Gallons
Total Used to Sprinkle:	14,544,000 Gallons
Sulfuric Acid Used:	4,655 Gallons
Flocculant Used:	124 Gallons
Pond Water Pumped to P/S Gland Seal:	4,849,580 Gallons
Pond Water Pumped to V/E Gland Seal:	5,334,410 Gallons
Water Pumped from P/S Shaft:	23,495,340 Gallons
Water Pumped from V/E Shaft:	45,432,120 Gallons
Water Reinjected:	321,730 Gallons
Total Sewage Treated:	56,350 Gallons
(10%) Chlorine Used for Sewage:	15 Gallons
Dust Control Chemical:	1,200 Gallons of Dust Guard

C-b Project
CENTRAL RECORDS

Rec'd SEP 3 1981

FILE_____

Water Hauled (Gallons)

FROM		TO				
Creek Well	Ponds	V/E	P/S	BP	Dust Control	Construction
259,000	1,684,000	33,000	93,200	120,000	268,800	1,416,012

Weekly Discharge Samples

Date	pH	T.S.S. (ppm)	Fluoride (ppm)
8/05/81	8.76	9.6	18.2
8/12/81	8.87	9.8	17.7
8/19/81	7.37	3.5	17.4
8/26/81	7.55	4.3	17.5

Weekly Sewage Test

Date	pH	T.S.S.	BOD ₅ PPM	Fecal Coliform	Chlorine Residual PPM
8/04/81	8.43	25	23	0	0.6
8/13/81	8.25	14	18	0	0.6
8/19/81	8.12	10	23	0	0.2
8/25/81	7.95	12	11	200	0.4

JWJ/mdb (9/1/81)

c: E. B. Baker
 S. L. Stringer
 C. B. Central Records

G. Ullinsky
 W. Wells

I-233

WATER DISCHARGE - MONTH OF September, 1981

(Continuous Discharge)

PICEANCE CREEK FLOW:

Hunter Creek Station

No Name Station

Maximum:	5,448 GPM	4,472 GPM
Minimum:	2,202 GPM	1,997 GPM
Average:	3,400 GPM	1,929 GPM

Maximum Discharge Flow:	1,529 GPM	Pond A:	1,200,000 Gallons
Average Discharge Flow:	293 GPM	Pond B:	1,500,000 Gallons
Total Discharge :	12,657,600 Gallons	Pond C:	1,500,000 Gallons

Injection Chemical Used	:	0
Total Pumped to Pond C	:	11,647,260 Gallons
Total Used to Sprinkle	:	1,641,600 Gallons
Sulfuric Acid Used	:	1,386 Gallons
Flocculent Used	:	120 Gallons
Pond Water Pumped to P/S Gland Seal:	:	3,303,650 Gallons
Pond Water Pumped to V/E Gland Seal:	:	312,050 Gallons (Shutoff 9/3/81)
Water Pumped from P/S Shaft	:	23,996,580 Gallons
Water Pumped from V/E Shaft	:	2,364,500 Gallons (Shutoff 9/3/81)
Water Reinjected	:	4,540,770 Gallons
Total Sewage Treated	:	29,411 Gallons
(10%) Chlorine Used for Sewage	:	10 Gallons
Dust Control Chemical	:	0
Dog Food Used in Sewer Plant	:	267 Pounds

C-b Project

Water Hauled (Gallons)

CENTRAL RECORDS

From		To				
Creek Well	Ponds	V/E	P/S	BP	Dust Control	Construction
290,000	510,000	4,800	110,600	148,500	298,000	239,600
						FILE

Weekly Discharge Samples

Date	pH	T.S.S. (ppm)	Fluoride (ppm)
9/02/81	8.02	2.1	18.9
9/09/81	7.68	2.5	18.8
9/16/81	7.84	5.4	20.0
9/23/81 - No Discharge		9/30/81 - No Discharge	

Weekly Sewage Test

Date	pH	T.S.S.	Bod5 PPM	Fecal Coliform	Chlorine Residual PPM
9/02/81	8.03	16	5	11	1.0
9/09/81	8.10	22	19	0	1.0
9/15/81	8.20	10	20	0	1.0
9/23/81	7.8	8	10	0	3.0

JWJ/mdb (10/1/81)

c: E. B. Baker
S. L. Stringer
G. Ullinsky
W. Wells
C. B. Central Records

check to see if opp. & this goes to Sewage plant file at C.B.

2.2.1.7 Shale Dumps

Leachate data were collected from the lysimeters during 1981 are presented in Table 2.2.1-7-1. The leachates may be initiated from precipitation percolating (leaching) through the raw shale to the collectors.

Table 2.2.1.7-2 presents field measurement (pH, DO, conductivity and temperature) data collected at the lysimeters.

Included in this section is the First Annual Progress Report entitled "Field Leaching Study of Raw Mined Oil Shale" for reporting period April 1, 1980 through May 31, 1981. This report summarized lysimeter construction and data collected during the above report period.

TABLE 2.2.1.7-1

C-b Shale Tract Precipitation Measurements In .01 Inch
For Leachale Shale Pile

DAY	MAR 1981												MAR 1982											
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1					.04		RF																	
2			.33				RF	.22	.10															
3		.20	.95	.4			RF	.35																
4		.5		.02			RF	.62																
5			.5				.25	.25																
6							.02																	
7							.03																	
8								.58																
9							.18																	
10						.22	.07																	
11		.15		.20			.20																	
12						.05	.17																	
13					.15		.10	.24																
14					.12		.03																	
15							.68																	
16			.07				.09																	
17			.07	.31			.02																	
18		.11						.08																
19		.25		.04		.08	.12																	
20																								
21					.03	.04																		
22		.08																						
23																								
24			.06		.17	.13	.37	.02																
25					.04		.06																	
26					.04		.15																	
27			.42																					
28	.16	.16	.35					.02																
29	.02				.14		.15																	
30	.11				.20		.37	.04																
31	.16	.08			RF																			
Total	.45	.78	2.73	1.19	.99	1.89	1.14	4.05	.41															

TABLE 2.2.1.7-2

LYSIMETER CHECK - FIELD MEASUREMENTS
AT C-b TRACT LEACHALE SHALE PILE

	<u>Page No.</u>
April 1981	I-238
May 1981	I-239
June 1981	I-241
July 1981	I-242
August 1981	I-244
October 1981	I-245
November 1981	I-247

Date: Time: Observer:	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
4/16/81 1000 Noble- Ralphs																
Volume (ℓ)	2	2	2	18.4	-	2	2	2	22.3	-	-	-	-	-	9.80	
Temp (°C)	8.0	9.0	11.0	8.0	-	9.0	9.0	9.0	8.0	-	-	-	-	-	8.0	
PH	7.75	7.78	7.83	7.71	-	7.71	7.70	7.78	7.69	-	-	-	-	-	7.87	
Conductivity ^(M) _{mhos}	5400	5490	5340	5300	-	5370	5260	5370	5340	-	-	-	-	-	5690	
Date: Time: Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity ^(M) _{mhos}																
Date: Time: Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity ^(M) _{mhos}																

*(Volume of leachate collected)

Date: 5/5/81 Time: 8:50-10:16 Observer:	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume (ℓ)	2	2	2	14.4	-	2	2	2	23.5	-	2	2	2	2125	10.1	
Temp (°C)	4	4	4	4	-	4	4	4	4	-	4	4	4	4	4	
PH	8.0	7.8	7.6	9.4	-	7.5	7.5	7.4	9.1	-	8.6	7.4	7.2	7.6	8.4	
RESISTANCE (mhos)	300	300	300	285	-	280	270	270	260	-	430	310	310	970	285	
Date: 5/7/81 Time: 10:30-11:10 Observer:																
Volume (ℓ)	2	2	2	13.1	-	2	2	2	14.45	-	2	2	2	7.25	50	
Temp (°C)	5	5	5	5	-	5	5	5	5	-	5	5	5	5	5	
PH	8.35	7.7	7.9	7.8	-	7.7	7.6	7.5	7.5	-	7.4	7.5	7.6	7.6	7.85	
RESISTANCE (mhos)	345	270	270	270	-	240	240	250	245	-	265	280	435	320	270	
Date:																
Time:																
Observer:																
Volume (ℓ)																
Temp (°C)																
PH																

*(Volume of leachate collected)

Date: Time: Observer:	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
5/12/81 0800 NOBLE BRINKBRIDGE																
Volume (ℓ)	2	2	2	4.25	-	2	2	2	2	27.2	-	2	2	2	14.7	2.6
Temp (°C)	15.0	15.0	15.0	15.0	-	14.0	14.0	14.0	14.0	14.0	-	14.5	15.0	14.5	14.5	14.5
PH	7.27	7.58	7.59	7.75	-	7.52	7.51	7.48	7.70	7.70	-	7.38	7.55	7.46	7.72	8.07
Conductivity (M mhos)	5.96	5.99	6.00	6.01	-	6.36	6.35	6.18	6.27	6.27	-	5.67	5.71	5.70	5.77	5.74
Date: Time: Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity (M mhos)																
Date: Time: Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity (M mhos)																

* (Volume of leachate collected)

LYSI-ER CHECK *

C.B. TRACT

Date: Time: Observer:	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
6/19/81 0815																
Volume (ℓ)	2	2	2	11.2	-	2	2	2	13.0	-	2	2	2	19.02	9.15	
Temp (°C)	10	10	10	10	-	11	11	11	10	-	11	11	11	11	11	
PH	8.4	8.5	8.2	8.1	-	8.1	7.8	7.9	7.8	-	9.8	9.75	9.75	7.9	8.1	
RESISTANCE (mhos)	250	240	240	230	-	210	210	205	195	-	230	230	230	210	200	
Date:																
Time:																
Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity (M mhos)																
Date:																
Time:																
Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity (M mhos)																

*(Volume of leachate collected)

	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Date: 7/8/81 Time: 0830 Observer: F. Noble																
Volume (ℓ)	2.0	2.0	2.0	5.25	0	2.0	2.0	2.0	14.95	0	2.0	2.0	2.0	6.95	6.60	
Temp (°C)	18.8	18.8	18.8	18.8	0	18.5	18.5	18.5	18.5	0	21.3	21.1	21.3	21.7	21.7	
PH	7.43	7.45	7.57	7.78	0	7.53	7.56	7.54	7.78	0	7.44	7.53	7.60	7.85	8.35	
Conductivity ^(M) mhos	7.68	7.72	7.73	7.76	0	8.24	8.25	8.28	8.34	0	7.74	7.75	7.71	7.75	8.66	
Date:																
Time:																
Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity																
Date:																
Time:																
Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity																

*(Volume of leachate collected)

Date: Time: Observer:	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
7/23/81																
Volume (mℓ)	2000	2000	2000	1025	0	2000	2000	2000	6200	0	2000	2000	2000	950	4800	
Temp (°C)	14	14	14	14	0	14	14	14	14	0	14	14	14	15	15	
pH	8.05	7.9	7.8	7.8	0	7.6	7.6	7.6	7.6	0	7.8	7.7	7.8	8.0	8.2	
(mhos)	190	185	185	185	0	180	185	200	170	0	190	195	185	185	175	
Date: Time: Observer:																
Volume (mℓ)																
Temp (°C)																
pH																
(mhos)																
Date: Time: Observer:																
Volume (mℓ)																
Temp (°C)																
pH																
(mhos)																

*(Volume of leachate collected)

Date: Time: Observer: Noble	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume (ℓ)	2.0	2.0	2.0	5.18	-	2.0	2.0	2.0	1335	-	2.0	2.0	2.0	7.40	10.45	20 E STILL DRIPPING SLO
Temp (°C)	21.0	21.0	21.0	21.0	-	21.0	21.0	21.0	21.0	-	18.0	18.0	18.0	18.0	18.0	
PH	7.81	7.83	7.85	8.04	-	7.62	7.65	7.68	7.84	-	7.38	7.46	7.61	7.87	8.32	
Conductivity ^(M mhos)	6.75	6.74	6.72	6.72	-	7.04	6.97	7.08	7.11	-	6.69	6.71	6.69	6.73	7.31	
Date: Time: Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity ^(M mhos)																
Date: Time: Observer:																
Volume (ℓ)																
Temp (°C)																
PH																
Conductivity ^(M mhos)																

*(Volume of leachate collected)

Date: 10/13/81 Time: 1430 Observer: F. Noble	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume (ℓ)	2.0	2.0	2.0	0.80	-	2.0	2.0	2.0	28.17	-	2.0	2.0	2.0	20.6	0.30	
Temp (°C)																
PH																
Conductivity (M mhos)																
Date: 10/15/81 Time: 1430 Observer: F. Noble																
Volume (ℓ)	2.0	2.0	2.0	12.95	0.10	2.0	2.0	2.0	22.1	-	2.0	2.0	2.0	20.6	0.32	
Temp (°C)																
PH																
Conductivity (M mhos)																
Date: 10/16/81 Time: 1510 Observer: T. Pysto																
Volume (ℓ)	2.0	2.0	2.0	20.6	0.35	2.0	2.0	2.0	28.17	-	2.0	2.0	2.0	28.17	0.25	
Temp (°C)																
PH																
Conductivity (M mhos)																

*(Volume of leachate collected)

Date: Time: Observer: J. B. Budge	10 Foot					15 Foot					20 Foot					COMMENTS
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
Volume (ℓ)	2.0	2.0	2.0	30.17	0.65	2.0	2.0	2.0	30.17	-	2.0	2.0	2.0	20.6	0.20	"D" bottles overflowing
Temp (°C)																
PH																
Conductivity (M mhos)																
Date: 10/20/81 Time: 1230 Observer: FWN																
Volume (ℓ)	2.0	2.0	1.95	-	.020	2.0	2.0	2.0	3.75	-	2.0	2.0	2.0	5.45	.035	
Temp (°C)																
PH																
Conductivity (M mhos)																
Date: 10/23/81 Time: 1400 Observer: FWN																
Volume (ℓ)	2.0	2.0	2.0	5.95	.030	2.0	2.0	2.0	12.10	-	2.0	2.0	2.0	13.30	0.85	
Temp (°C)	12.0	12.0	12.0	12.0	-	12.0	12.0	12.0	12.0	-	12.0	12.0	12.0	12.0	-	
PH	7.64	7.70	7.78	7.81	-	7.70	7.73	7.74	7.78	-	7.75	7.64	7.75	7.84	-	
Conductivity (M mhos)	6.67	6.76	6.79	6.67	-	6.89	6.95	6.98	6.98	-	6.75	6.86	6.86	6.70	-	

Date: Time: Observer: F. Noble	10 Foot					15 Foot					20 Foot					COMMENTS	
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E		
Volume (ℓ)	2.0	2.0	2.0	8.0	0.05	2.0	2.0	2.0	2.0	15.9	0.95	2.0	2.0	2.0	17.3	0.65	
Temp (°C)																	
PH																	
Conductivity(M _{mhos})																	
Date: 11/6/81 Time: 1430 Observer: F. Noble																	
Volume (ℓ)	2.0	2.0	2.0	11.25	0.30	2.0	2.0	2.0	2.0	1040	4.35	2.0	2.0	2.0	8.55	2.95	
Temp (°C)	10.5	10.5	10.5	10.5	-	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	
PH	7.57	7.71	7.81	7.81	-	7.72	7.73	7.74	7.76	8.08	7.75	7.63	7.76	7.73	8.09		
Conductivity(M _{mhos})	7.23	6.88	6.14	6.05	-	7.54	7.49	7.30	6.99	7.08	7.39	7.47	7.12	6.61	6.87		
Date: 11/12/81 Time: 1500 Observer: F. Noble																	
Volume (ℓ)	2.0	2.0	2.0	2.80	1.78	2.0	2.0	2.0	2.0	1275	4.05	2.0	2.0	2.0	6.45	1.55	
Temp (°C)	7.0	7.0	7.0	7.5	-	6.5	7.0	7.0	7.5	8.0	-	7.0	7.0	7.5	8.0	9.0	
PH	7.54	7.66	7.68	7.70	-	7.56	7.57	7.58	7.57	-	7.55	7.52	7.59	7.60	7.49		
Conductivity(M _{mhos})	6.91	7.04	7.34	6.64	-	7.08	7.37	6.97	6.82	-	6.75	7.15	6.54	6.62	6.91		

*(Volume of leachate collected)

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FIRST ANNUAL PROGRESS REPORT

Cooperative Agreement Number Cr-807513

FIELD LEACHING STUDY OF RAW
MINED OIL SHALE

Reporting Period

4/1/80 - 5/31/81

David B. McWhorter

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Fort Collins, Colorado 80523

INTRODUCTION

In a previous study, the leaching characteristics of raw oil shale were investigated under laboratory conditions. The objectives of the current project include the determination of the chemical characteristics of leachate generated from raw shale in the field. The quantity of leachate produced is also of primary interest. The results from the field tests will be compared with the laboratory results from the previous study to assist in defining the importance of such factors as percolation rates (residence times), wetting and drying cycles, and other weathering agents.

The project was officially initiated on April 1, 1980 and was conceived as a cooperative project among Colorado State University, U.S. Environmental Protection Agency, the Area Oil Shale Office, and the Rio Blanco Oil Shale Company. All field installations were to be located on federal lease tract C-a. Subsequently, the scope of work was broadened to include a similar installation at federal lease tract C-b in cooperation with the Occidental Oil Shale Company.

This report describes the progress for the first year of the project. This report is being distributed to all cooperators in the project.

CONSTRUCTION

The collection system installed at C-a includes 3 collectors buried beneath raw shale at depths of 5, 10 and 15 ft. Each collector consists of a 10 ft by 10 ft square ($93,000 \text{ cm}^2$) of impervious material, contoured so that the percolation intercepted is conducted to a drain pipe located near the center of the collector (Figure 1). The collectors were constructed by first preparing a sand bed upon which a continuous sheet of polyethylene was placed. The foundation, upon which the sand bed was prepared, is natural ground that was graded to form small pads for the collectors. A hole of appropriate size

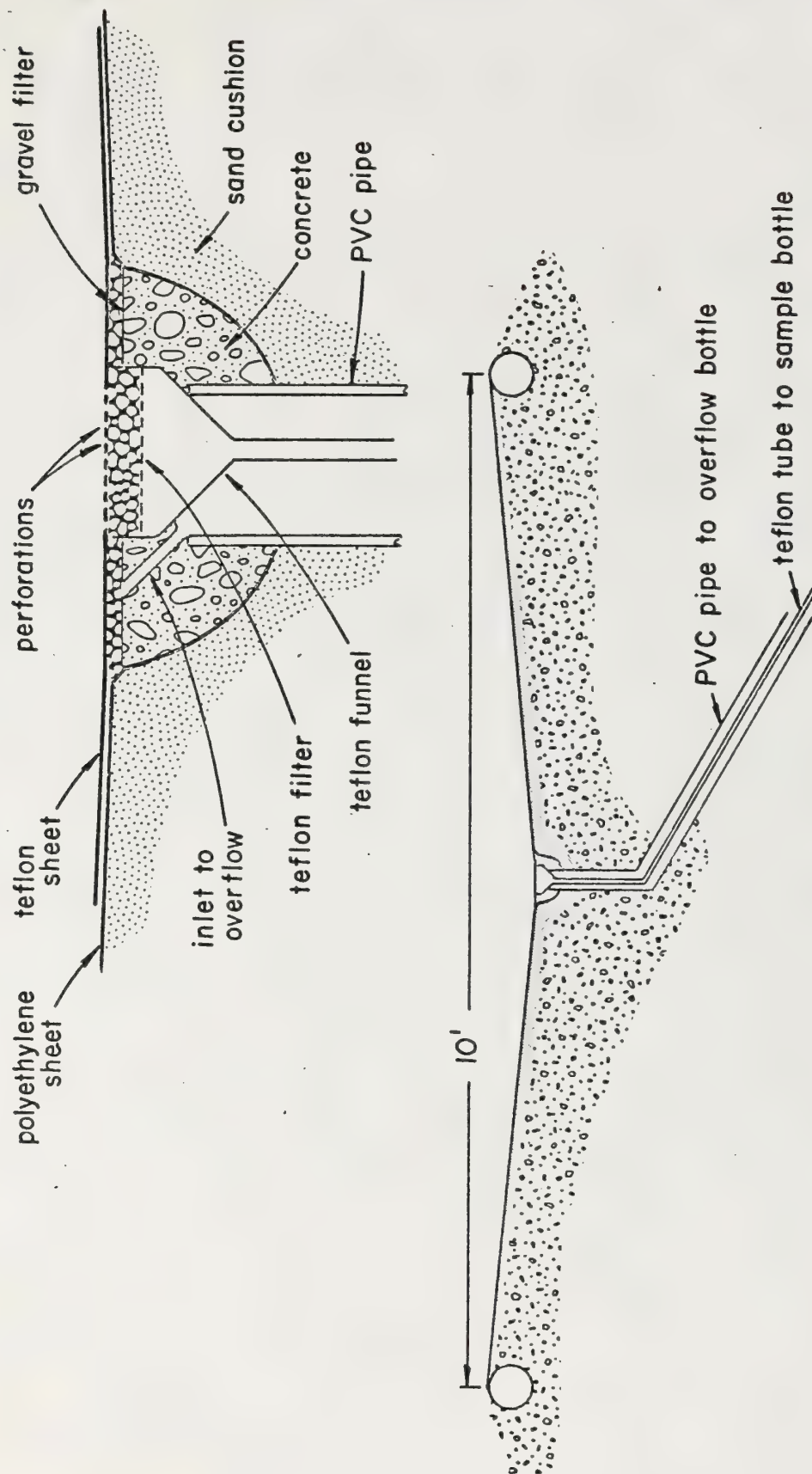


Figure 1. Construction details of the buried collectors - C-a tract.

was cut in the polyethylene so that the outer drain pipe could be raised through the sheet from the bottom. The outer drain pipe was 1 1/2 in diameter PVC and served the dual functions of conductor pipe for the inner drain tube and as a drain pipe for any percolate that was collected on the polyethylene sheet.

Inside the outer drain pipe, a teflon tubing was placed. The inner drain tube was connected to a teflon funnel that projected upward through the polyethylene sheet. Concrete was placed around the PVC pipe and supported the teflon funnel as shown in Figure 1. A teflon screen (filter) was situated in the funnel. The next step was to place a thin layer of gravel-size material over the top of the concrete and funnel. The screen in the funnel prevents the gravel from entering the teflon tubing.

The entire 10 ft x 10 ft area was covered with a teflon sheet. It was not possible to obtain a single teflon sheet of the size required, so it was necessary to overlap several strips that were cut approximately 11 ft long. The width of each strip was about 30 in. The overlap was of a shingle type so that leakage through the teflon was minimized. Directly above the teflon filter, holes were drilled through the teflon sheet so that percolate collected on the teflon sheet would pass directly into the funnel and then into the inner drain tube. As shown in Figure 1, a hole was formed in the concrete. The purpose of this hole was to provide for flow of any percolate collected between the teflon and polyethylene sheets to the outer drain pipe.

The function of each collector, constructed as described above, is visualized as follows. Percolate through the overlying raw shale will first encounter the teflon sheet. Hopefully, most of the intercepted percolate will pass over the teflon sheet and into the funnel and inner drain tube. In the event that a portion of the percolate makes its way through the teflon via the

overlapping joints or punctures, it will be collected on the underlying polyethylene sheet and conducted to the outer drain pipe. In this way, any percolate issuing from the inner tube will have contacted only teflon and will be suitable for trace organic analysis. The total from both the inner and outer drains should be indicative of the quantity of percolate intercepted.

The inner and outer drain tubes conduct the percolate by gravity from the collectors to sample bottles located in a small shelter at the toe of the shale pile. The teflon inner lines are connected to teflon sample bottles as shown in Figure 2. The sample bottles designated as A, B, and C are 2 liter bottles with teflon connections. Figure 3 shows the details of the connections to the bottles and of the teflon block in which the resistance/temperature probe is fixed. Note that the connections to each sample bottle are designed so that bottle A must fill before percolate is transported to bottle B. Bottle B is the second bottle to fill and so on. Percolate in excess of 6 liters is collected in the large overflow bottle (D). Both bottles D and E are polyethylene containers of approximately 40 liter capacity.

The collectors established at the C-b lease tract are of a very similar construction. Efforts were made to turn up the edges of the teflon and polyethylene sheets to form a somewhat deeper collector than those established on the C-a site. The purpose was to minimize any tendency for flow to be diverted around the collectors by the somewhat greater piezometric head in the water directly above the collector surface as compared to that exterior to the collector but at the same elevation. The only other significant difference is the depth of burial. At the C-b site, the collectors are buried to depths of 10, 15 and 20 ft. The corresponding depths at C-a are 5, 10 and 15 ft.

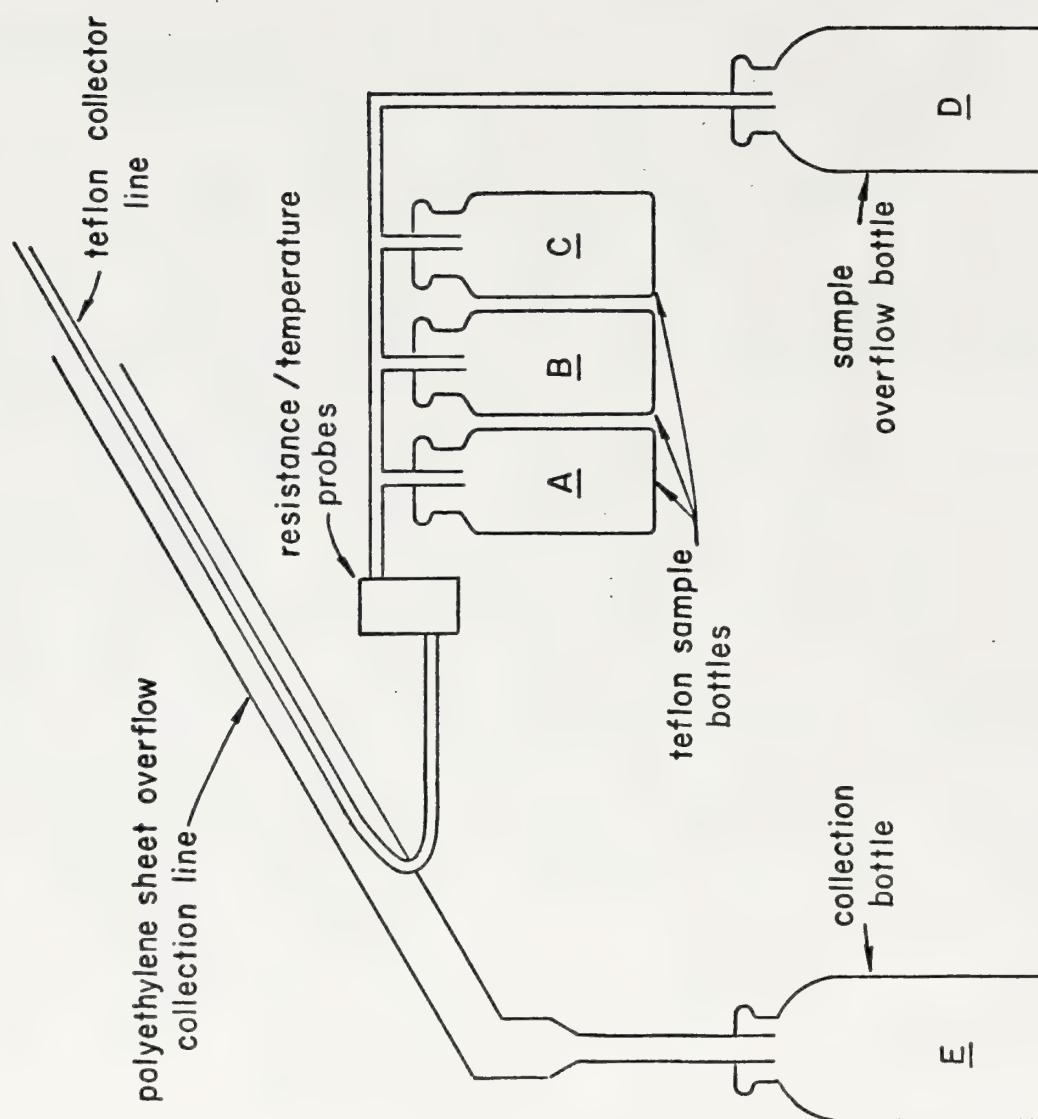


Figure 2. Schematic of the collection bottle arrangement.

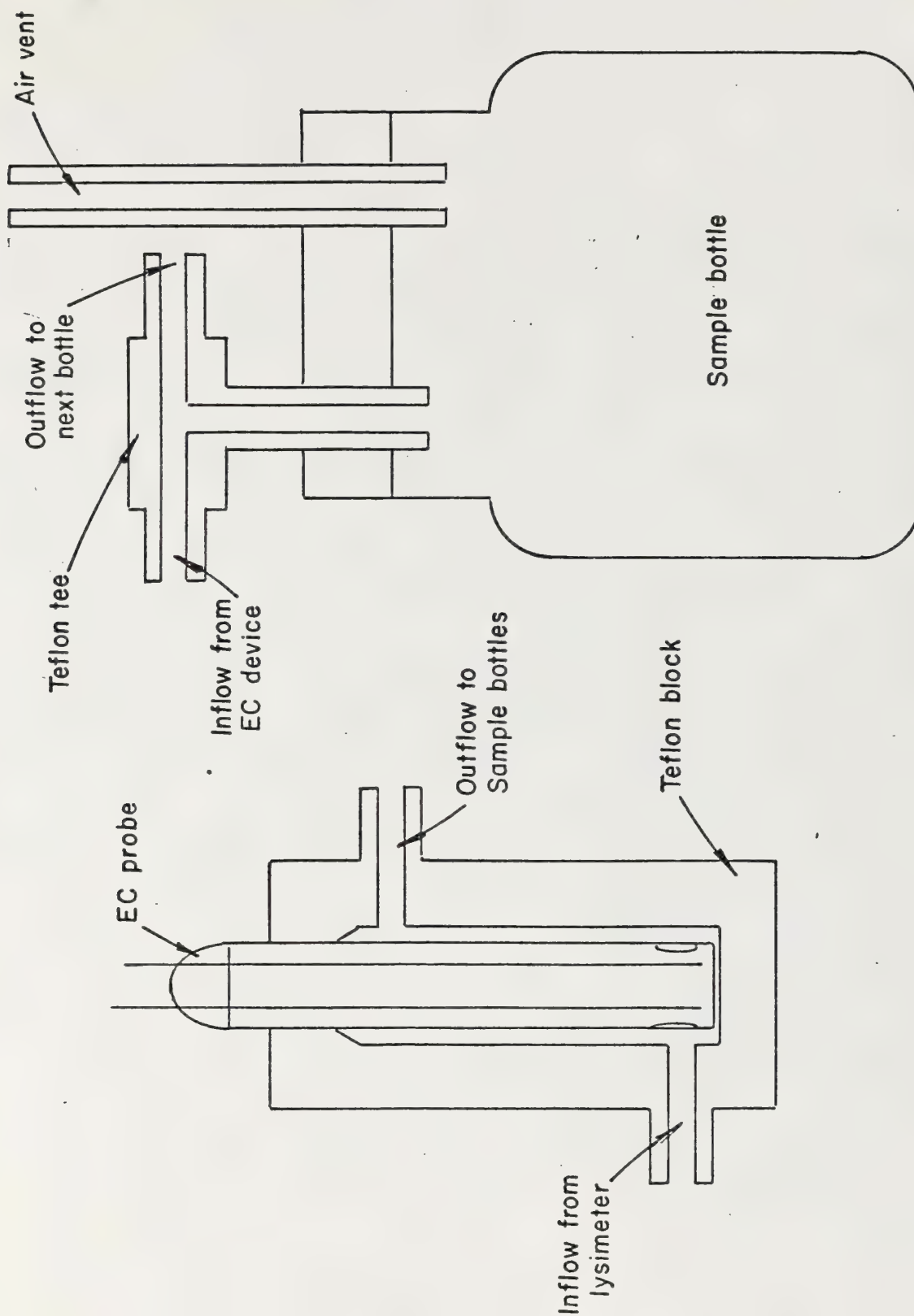


Figure 3. Details of the EC probe and bottle connectors.

PLACEMENT OF RAW SHALE

A schematic diagram of the location of the collectors on the C-a tract is shown in Figure 4. The collectors are located near the edge, but are an integral part of the overall raw shale pile.

The raw shale placed over the collectors was extracted from the R-5 zone beneath the first retort. The material mucked from blasts 1, 2 and 3 on May 8, 16 and 30, with roof elevations 6106, 6121 and 6141 was placed in three piles on the surface from which shale was taken for placement on the collectors. The first lift of raw shale was placed on the collectors in the period May 18-22. The material directly in contact with the teflon sheets was hand placed to minimize the probability of puncture. After this hand placed layer was completed, some 10-12 inches of material were shoveled on to the collectors by hand. Subsequent lifts were placed with a front-end loader. Material from the blast 1 and blast 2 piles were placed during this period. Alternate loads were taken from each pile, so the bottom two-thirds of the shale over the collectors is a mixture of muck from blasts 1 and 2. Approximately the upper third of the shale over the collectors came from the muck pile from blast 3 and was placed in the periods June 9-11 and June 17-18.

The raw shale at C-b was placed on the collectors during the period of December 8-10, 1981. Material mucked from the intermediate void level of the ventilation-escape shaft and the service shaft was utilized. The material from the V-E shaft came from an interval between elevations 5245 and 5265 ft. The extraction interval from the service shaft was 5340-5360. The materials were placed on the collectors in the same manner as utilized at C-a. It is estimated that the final mixture of materials over the collectors is 40% from the V-E shaft and 60% from the service shaft.

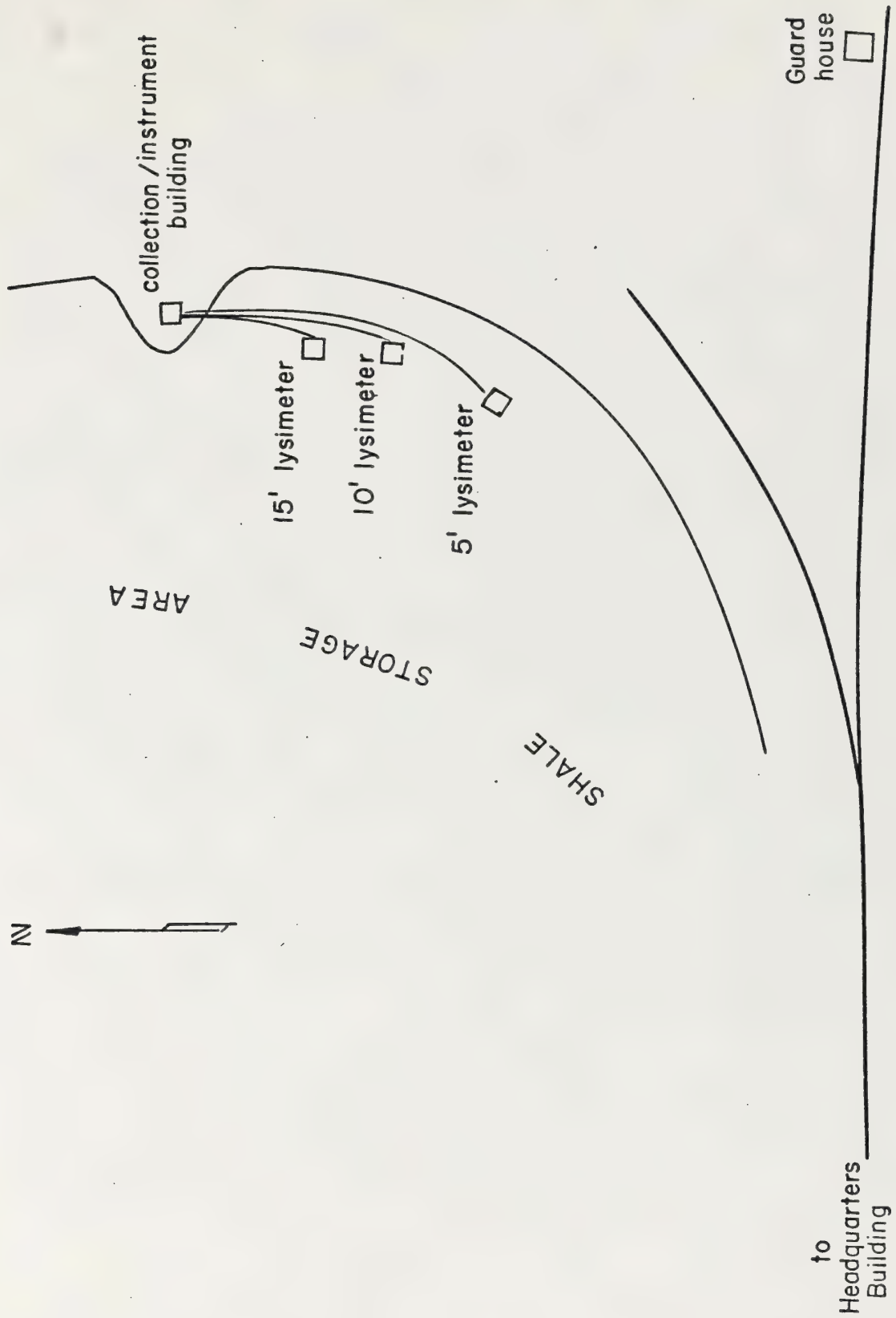


Figure 4. Schematic location map - C-a tract.

INSTRUMENTATION AND SAMPLING PROCEDURES

A recording rain gage is located some 150 ft north of the collectors and several simple volumetric gages have been placed at various locations. Data from these gages will document the precipitation in the form of rain. A recording rain gage was placed immediately adjacent to the 10 ft collector at the C-b site also.

A flow-through electrical resistance probe and a thermocouple is located in the teflon collection line, upstream of the collection bottles at the C-a site. These probes are read out on a paper tape data logger. Readings are recorded every six hours. CSU personnel are responsible for monitoring and maintenance of instrumentation on site. No automatic data logging is used at the C-b collectors.

Collection and distribution of samples from the sample bottles is accomplished by personnel from Vern Norman's office (USGS in Meeker, Colorado). Mr. Jack Clark (Rio Blanco) is responsible for monitoring precipitation and alerting concerned parties as to the occurrence of leachate in the bottles at C-a. Mr. Ed Baker or a member of his group performs this function at C-b. Depending upon the sufficiency of sample volume, splits will be distributed to CSU, USGS-AOSO, USGA-WRD and DOE-OSTF. Again depending upon sample volume, aliquots that have been

- 1) filtered through 0.45 micron filter into polyethylene bottle,
- 2) filtered through 0.45 micron filter into acid rinsed polyethylene bottle, acidified,
- 3) filtered through 0.45 micron silver membrane filter into a glass bottle with aluminum septum under lid,

will be provided. Details of sample labeling and log book entries have

been agreed upon and are detailed in a July 30, 1980, letter to D. B. McWhorter (CSU) from Glen A. Miller (USGS-AOSO).

RESULTS TO DATE

Leachate Volumes

The first samples obtained from the collectors was drainage of waters contained in the materials at the time of placement. These samples have been analyzed to provide the initial quality of the percolate. One rainfall event in August, 1980, resulted in leachate collection from the 5 ft collector at C-a. This sample is believed to be largely pre-existing, in-situ water that was displaced by the precipitation. Other than this one event, no significant leachate volume was produced in any of the collectors until the spring, 1981.

Tables 1 and 2 show the record of leachate volumes measured at C-a and C-b, respectively. The letters A, B, C, ... refer to particular bottles in accordance with the bottle designation shown on Figure 2. The same configuration of bottles is used on all collectors at both sites. Leachate volume data will be added to Tables 1 and 2 as they become available. The total quantity collected in bottles A through D represents the volume collected from the top of the teflon sheets (refer to Figures 1 and 2). The leachate in bottle E is that which finds its way through the teflon collection system but is intercepted on the polyethylene sheet. Approximately 30 percent of the total volume collected from the 5 ft collector at C-a came through the teflon system. The remaining 70 % (i.e. bottle E) was collected by the polyethylene sheet. In contrast, the corresponding values for the 10 ft collector at C-b are 93% and 7%, respectively. Evidently, the teflon collection system at 10 ft on C-b is functioning better than the 5 ft teflon collection system at

C-a. This is of little consequence, however, because samples adequate for analysis are being obtained from the teflon collection systems at all depths at both locations.

The right-hand columns in Tables 1 and 2 contain the cumulative volumes obtained from all bottles (including E) and represents the total volumes of leachate collected at each depth. The total volumes collected at each of the three depths at the C-a site suggest that substantial volumes of infiltrated water are being stored in the profile. The materials placed over the collectors at C-a are believed to be finer grained than are those placed over the collectors at C-b. Samples of the materials overlying each collector have been collected and are being subjected to a grain-size analysis. These results are not yet analyzed. The cumulative volumes measured at C-b suggest that infiltrated waters are penetrating readily to the 20 ft depth. It is speculated that the relatively coarse materials over the C-b collectors does not provide as much capillary storage and have a much greater permeability than the C-a materials. This aspect is being investigated further.

The total volumes of leachate collected are quite reasonable and suggest that the collectors are functioning as planned. It is to be noted that the volumes collected to date are very small relative to the depths of materials placed above the collectors. Both laboratory results and theoretical calculations indicate that significantly improved leachate quality cannot be expected before about one pore volume of leachate has been collected. While we have not yet made measurements of the porosity, it will probably not be greatly different than about 0.40. Assuming a porosity of 0.40, the number of pore volumes per unit area in a 5 ft depth of material is 2 ft or 61 cm. Therefore, the 1.18 cm depth of leachate collected at the 5 ft depth at C-a represents about 0.02 pore volumes and suggests that significantly improved

TABLE 1
LEACHATE VOLUME RECORD - C-A TRACT

LEASE TRACT C-A, 5 ft COLLECTOR (93000 cm ²)									
DATE	JULIAN DAY	← VOLUME SAMPLED, LITERS			→ SUMUL. TOTAL			cm ³ /cm ²	
		A	B	C	D	E	Liters		
6/26/80	238	2.0	2.0	2.0	—	—	6	0.06	
4/13/81	93	—	—	—	—	—	8	0.09	
4/18/81	98	2.0	1.5	—	—	25.2	36.7	0.39	
5/15/81	125	2.0	2.0	2.0	10.0	50.5	103.2	1.11	
5/17/81	127	1.7	1.0	—	—	—	105.9	1.14	
5/22/81	149	2.0	2.0	Trace	—	—	109.9	1.18	

LEASE TRACT C-A, 10 ft COLLECTOR (93000 cm ²)									
DATE	JULIAN DAY	← VOLUME SAMPLED, LITERS			→ SUMUL. TOTAL			cm ³ /cm ²	
		A	B	C	D	E	Liters		
5/15/81	125	1.95	—	—	—	—	1.95	0.02	
5/17/81	127	0.05	—	—	—	—	2.0	0.02	
5/22/81	149	0.05	—	—	—	—	2.05	0.02	

LEASE TRACT C-A, 15 ft COLLECTOR (93000 cm ²)									
DATE	JULIAN DAY	← VOLUME SAMPLED, LITERS			→ SUMUL. TOTAL			cm ³ /cm ²	
		A	B	C	D	E	Liters		
5/15/81	125	2.0	1.95	—	—	—	3.95	0.04	
5/17/81	127	2.0	—	—	—	—	5.95	0.06	
5/22/81	149	2.0	Trace	—	—	—	7.95	0.09	

TABLE 2
LEACHATE VOLUME RECORD - C-B TRACT

LEASE TRACT C-B, 10 ft COLLECTOR (93000 cm ²)									
JULIAN DAY		VOLUME SAMPLED, LITERS				E		CUMUL. TOTAL	
DATE	DAY	A	B	C	D			LITERS	cm ³ /cm ²
4/1/81	78	2.0	2.0	2.0	2.0			8.0	0.09
4/2/81	79	2.0	2.0	2.0	2.0			43.6	0.47
4/3/81	80	2.0	2.0	2.0	2.0			49.6	0.53
4/4/81	81	2.0	2.0	2.0	2.0			11.1	0.84
4/5/81	82	2.0	2.0	2.0	2.0			93.8	1.01
4/6/81	83	2.0	2.0	2.0	2.0			123.3	1.33
4/7/81	84	2.0	2.0	2.0	2.0			148.7	1.60
4/8/81	85	2.0	2.0	2.0	2.0			181.9	1.96
4/9/81	86	2.0	2.0	2.0	2.0			222.3	2.39

LEASE TRACT C-B, 20 ft COLLECTOR (93000 cm ²)									
JULIAN DAY		VOLUME SAMPLED, LITERS				E		CUMUL. TOTAL	
DATE	DAY	A	B	C	D			LITERS	cm ³ /cm ²
4/1/81	98	2.0	2.0	2.0	2.0			20.9	0.52
4/2/81	99	2.0	2.0	2.0	2.0			52.0	0.56
4/3/81	100	2.0	2.0	2.0	2.0			61.8	0.66
4/4/81	101	2.0	2.0	2.0	2.0			9.8	0.74
4/5/81	102	2.0	2.0	2.0	2.0			40.0	0.74
4/6/81	103	2.0	2.0	2.0	2.0			106.1	1.14
4/7/81	104	2.0	2.0	2.0	2.0			119.4	1.28
4/8/81	105	2.0	2.0	2.0	2.0			142.7	1.53
4/9/81	106	2.0	2.0	2.0	2.0			190.4	2.05

leachate quality cannot be expected for a long time. Even the substantially larger volumes collected at C-b represent small fractions of the pore volumes overlying the materials.

Quality of Leachate

A number in any of the columns headed by the letters A through E in Tables 1 and 2 represents a sample that has been collected for chemical analysis. A field measurement of electrical conductivity (EC) was made on each of these samples. The EC values adjusted to 25° C have been plotted against time for each collection bottle for each collector at both sites. These graphs are included as part of this report. At the C-a site, more data have been collected from bottle A at the 5 ft depth because this bottle is the first to receive leachate. The EC of leachate collected in bottle A at the 5 ft depth has exhibited a steady increase as shown in Figure 5. In fact, all samples at C-a where more than one data point is available, show a steep increase. The latest samples show EC values on the order of 20 mmhos/cm and greater. These values have been double checked and verified independently because they are substantially greater than were expected based on earlier laboratory work. No data from the in-line EC probe are reported here because the maximum EC that could be measured by that device is 13 mmhos/cm. Therefore, it has been off-scale in almost every case. We have installed (5/29/81) a set of precision resistors in series with the probes. This will permit the detection and measurement of much higher EC values.

Figures 13 through 18 show the EC data obtained from the collectors at the C-b site. These data indicate a rather uniform value of EC of about 6 mmhos/cm. The reasons for the large differences between the EC observed at C-a and at C-b are not known at this time. The apparently coarser texture of the C-b materials causes them to have a smaller specific surface and a greater

TABLE 3
CHEMICAL ANALYSIS

PARAMETER	UNITS	LEASE TRACT C-A			5 ft COLLECTOR			LEASE TRACT C-B			3/19/81 BOTTLE #
		5 ft	10 ft	Initial	BOTTLE A	BOTTLE B	8/26/80 BOTTLE C	10 ft	15 ft	20 ft	
pH		7.78	7.12		6.49	7.12	7.00	7.66	8.25	7.80	8.16
EC	µmhos/cm @ 25°C	5100	7000		3060	2470	2890	2480	2100	2800	5300
Alk	mg/l as CaCO ₃	98	75		46	43	51	607	591	872	190
H ₂ CO ₃	mg/l	5.7	20		53	12	18	47	12	49	4.6
HCO ₃ ⁻	"	114	91		56	52	62	737	706	1100	223
CO ₃ ⁼	"	0.42	0.07		0.01	0.04	0.01	1.9	7.4	3.9	1.9
F ⁻	"	2.5	9.0		5.0	3.0	3.5	18	17	23	3.0
Cl ⁻	"	175	190		52	22	24	10	10	16	7.0
NO ₃ ⁻	"	1100	2100		370	100	160	290	200	290	380
SO ₄ ⁼	"	1500	2500		2000	1800	2100	510	470	510	3000
B	"	0.450	0.637		0.184	0.128	0.156	0.791	0.725	0.780	0.570
Ca	"	0.172	0.260		0.258	0.173	0.189	<0.05	<0.05	<0.05	0.120
Be	"	0.0019	0.0077		0.0027	0.0009	<0.00005	0.0015	0.00027	<0.0005	0.0017
Mg	"	225	552		320	324	328	7.7	4.7	7.6	140
P	"	0.73	0.74		0.52	0.75	0.91	0.13	0.11	0.26	0.79
Si	"	5.3	3.5		3.9	3.2	3.8	2.9	7.2	17	4.7
Mo	"	4.7	5.8		1.3	0.78	0.89	6.9	5.3	5.4	9.9
Mn	"	0.086	0.264		0.248	0.156	0.213	0.019	0.0021	0.0037	0.135
Ni	"	0.08	0.31		0.11	0.11	0.15	<0.05	<0.05	<0.05	0.21
Na	"	1370	2820		376	232	196	872	727	879	1470
Co	"	0.013	0.025		0.014	0.016	0.018	0.0002	0.0058	0.0049	0.015
Hf	"	1.9	2.3		2.0	2.1	2.5	9.7	1.2	4.2	2.0
Ca	"	364	841		400	431	448	10	6.9	12	351
U ₁₂	"	0.061	0.049		0.094	0.083	0.089	0.215	0.080	0.121	0.027
K	"	12	15		6.9	3.3	3.3	9.0	3.6	6.1	58
Cr	"	<0.1	0.13		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fe	"	4.7	5.9		4.0	2.9	3.1	0.5	0.27	0.57	9.1
Pb	"	<0.3	<0.3		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
UNION / CATION =		14	25		6	16	7	13	6	3	9
BALANCE											
Calcium - Phosphorus, %											
Total											

permeability than the C-a materials overlying the collectors. Reduced specific surface and reduced residence time would be expected to result in reduced EC, but there may be other factors as well. For example, the kind and quantity of soluble salts in the two shales may differ greatly. These factors will be investigated during the coming months.

Preliminary chemical analyses have been completed on a total of 10 leachate samples; 6 from the C-a site and 4 from the C-b site. These results are shown in Table 3. Columns with the word "initial" in the heading represent the initial drainage of waters contained in the raw shales at the time of emplacement over the collectors. Samples collected at C-a from the 5 ft collector on August 26, 1980, are leachate produced in response to a precipitation event, but are believed to consist largely of displaced in-situ waters as explained previously. The sample collected at C-b from the 10 ft collector on March 19, 1981, is the first leachate to be produced in response to spring snowmelt.

Chemical analyses of the high EC waters collected at C-a during May, 1981, have not been completed. These analyses will be contained in a subsequent progress report. The analyses listed in Table 3 should be considered preliminary. The milliequivalents of cations does not balance that for the anions satisfactorily in a few cases and these analyses will be repeated. In all ten samples, there was an anion deficiency, even in those where the balance is considered satisfactory. This suggests a consistent bias and will be investigated.

Precipitation Data

Table 4 contains the precipitation record for the C-b site. Data from the C-a site have not been tabulated at the time of this writing.

TABLE 4

PRECIPITATION RECORD AT COLLECTOR SITES

Site C-a			Site C-b		
Date	Precip.	Cumul.	Date	Precip.	Cumul.
	cm	cm		cm	cm
Jan 5, 1981	.20	.20	March 28, 1981	0.41	0.41
6	.03	.23	30	0.33	0.74
29	.08	.31	31	0.41	1.15
Feb 10	.05	.36	April 3	0.51	1.66
23	.03	.39	4	0.13	1.79
27	.05	.44	May 2	0.64	2.43
Mar 5	.10	.54	3	2.41	4.84
4	.08	.62	4	0.13	4.97
7	.76	1.38	6	1.27	6.24
9	.03	1.41	11	0.38	6.62
16	.05	1.46	16	0.25	6.87
17	.51	1.97	17	0.43	7.30
18	.08	2.05	20	0.64	7.94
23	.05	2.10	24	0.13	8.07
24	.10	2.20	28	0.38	8.45
25	.15	2.35			
29	.28	2.63			
29	.3	2.93			
30	.71	3.64			
31	.18	3.82			
April 3	.13	3.95			
6	.33	4.28			
16	.10	4.38			
May 4	3.98	7.86			
6	.10	7.96			
10	.15	8.11			
11	.15	8.26			
18	.23	8.49			
21	.08	8.57			
25	.05	8.62			
26	.03	8.65			

ANTICIPATED ACTIVITIES

The response of the collectors to spring snowmelt and precipitation has decreased greatly at the time of this writing. It is expected that relatively few samples will be generated during summer. This should permit us to clear the rather large backlog of samples collected this spring.

An attempt will be made to find the reasons for the large difference between the EC of the waters collected at the two sites. The hydraulic properties of the materials overlying the collectors will be measured to assist in quantifying residence times. Also, samples will be tested for the total quantities of soluble salts. The equilibrium chemical reactions that are potentially controlling the major ion concentrations will be investigated.

FIGURE 5
C-A LEASE TRAIT - 5 ft COLLECTOR

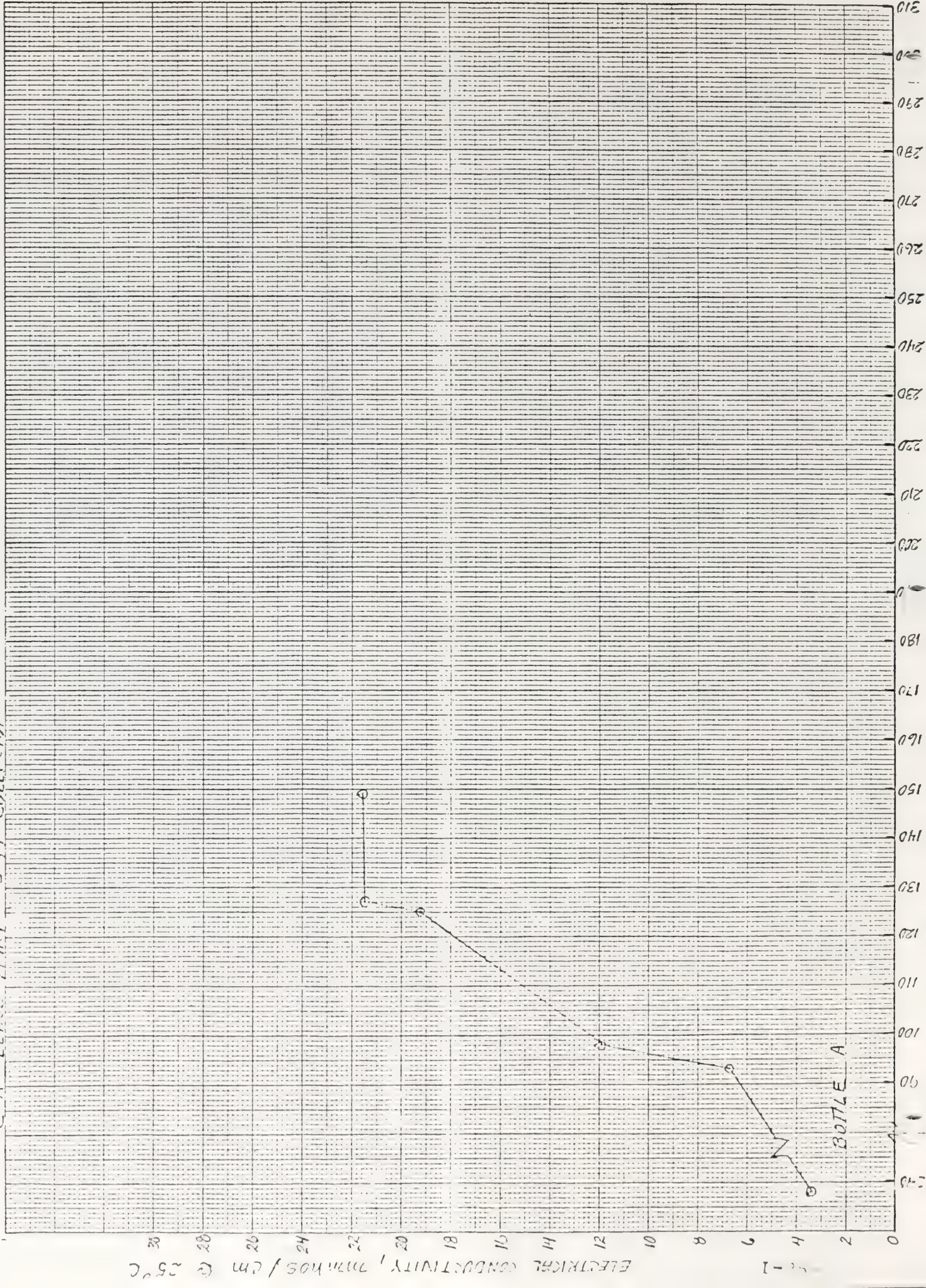


FIGURE 6
C-A LEASE TRACT - 5 FT COLLECTOR (CONTINUED)

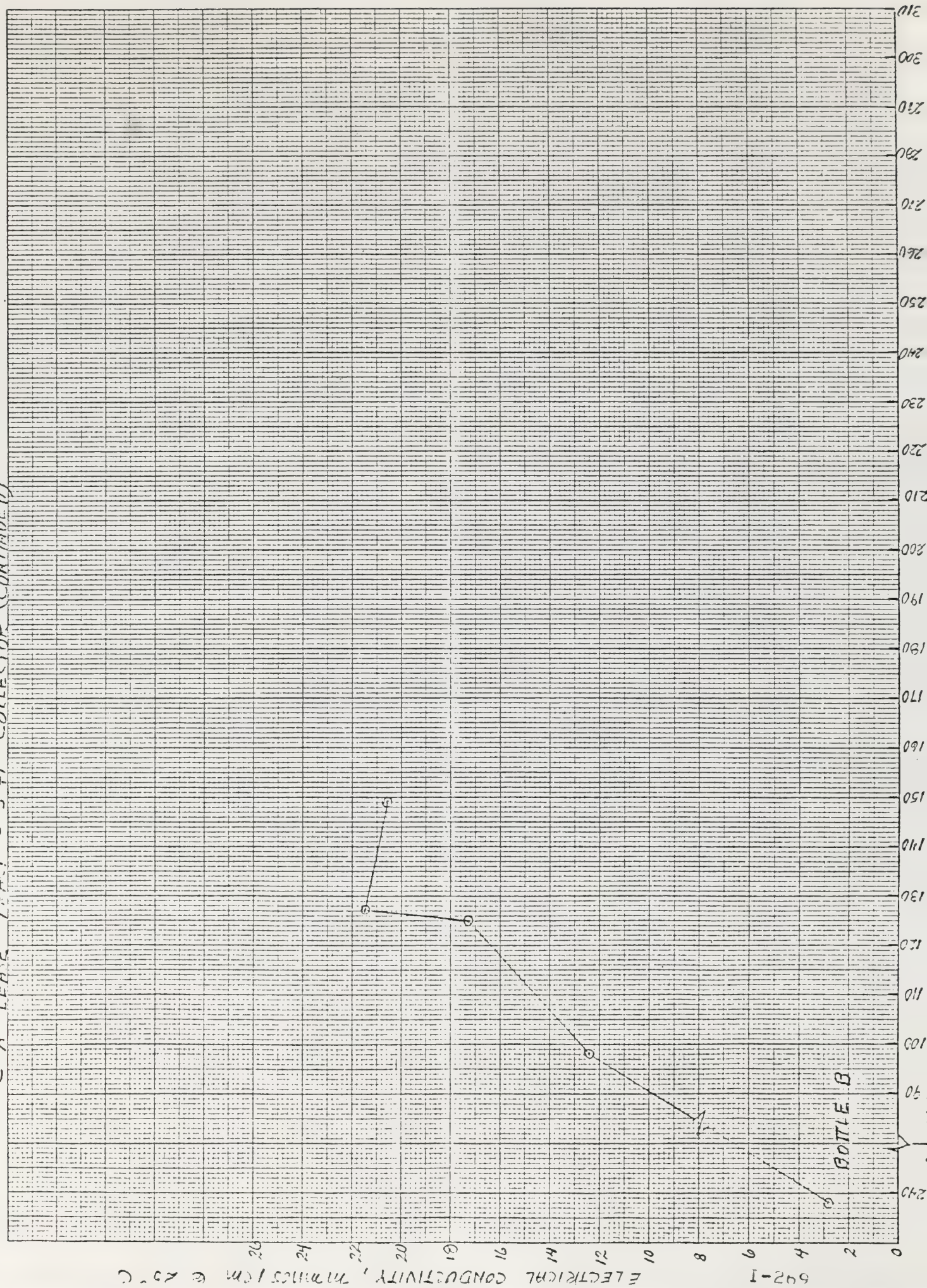


FIGURE 7

C-A LEASE TRAIT - 5 ft COLLECTOR (CONTINUED)

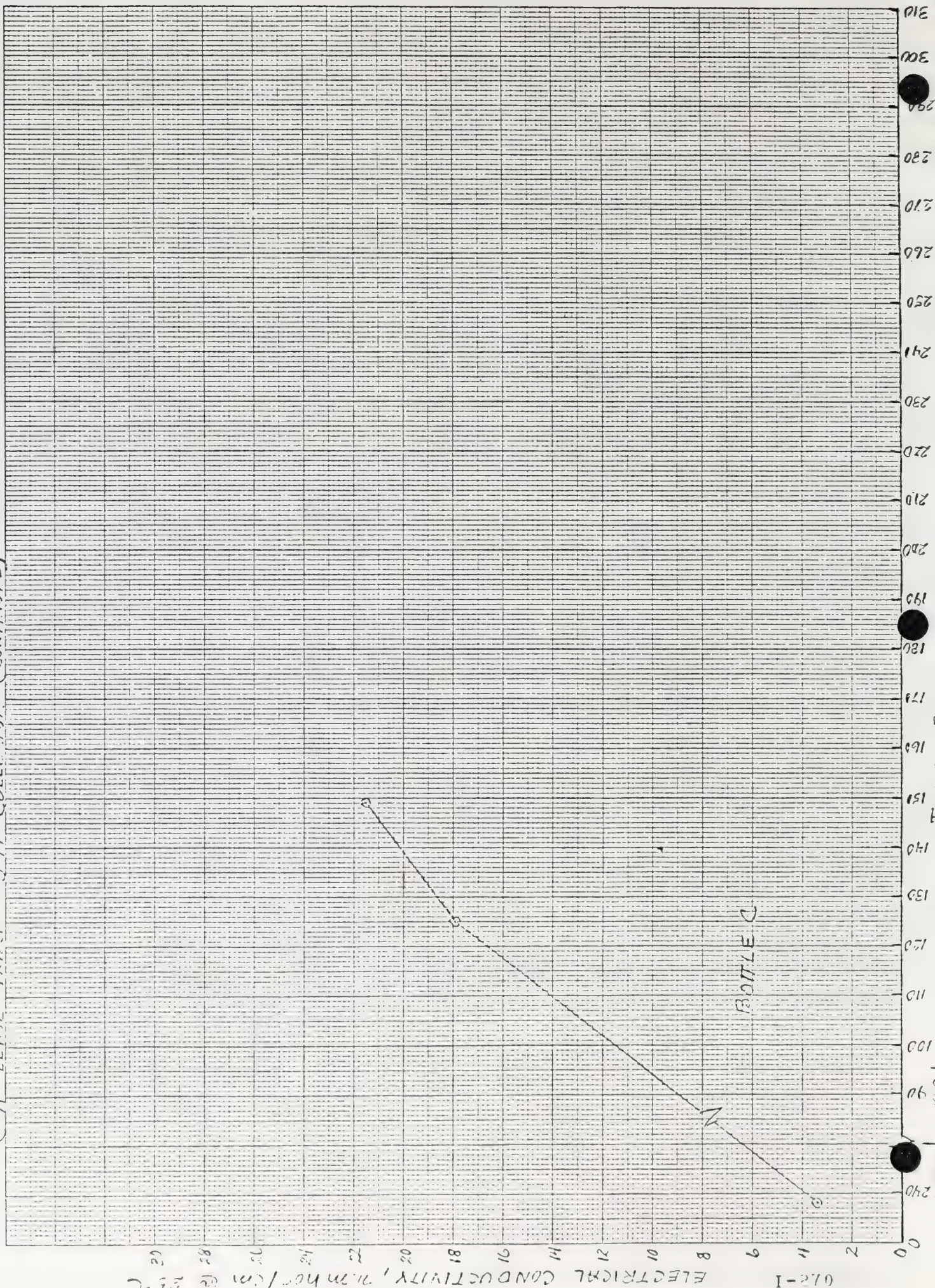
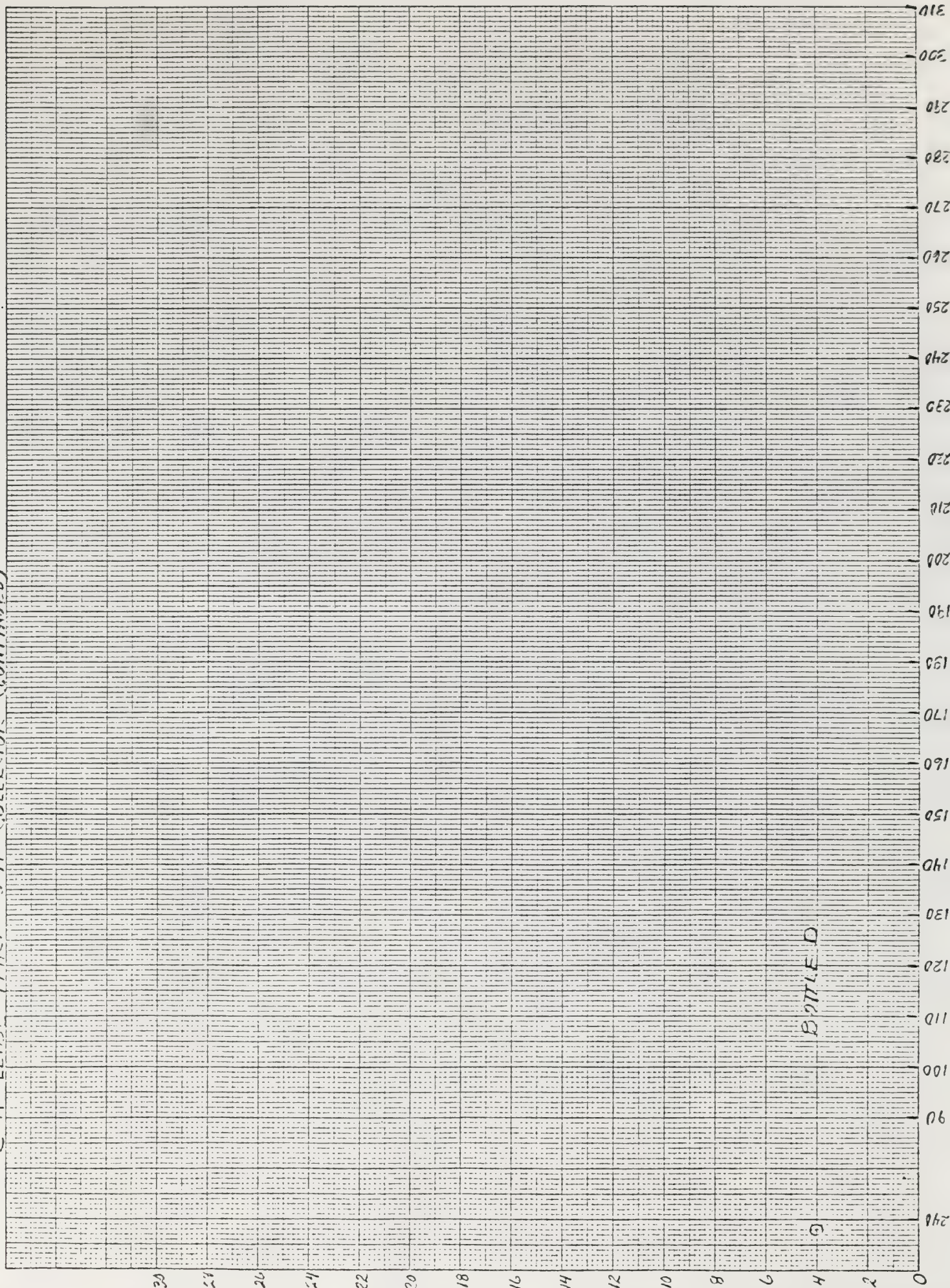


FIGURE 8

C-A LEASE TRACT - 5 ft COLLECTOR (CONTINUED)

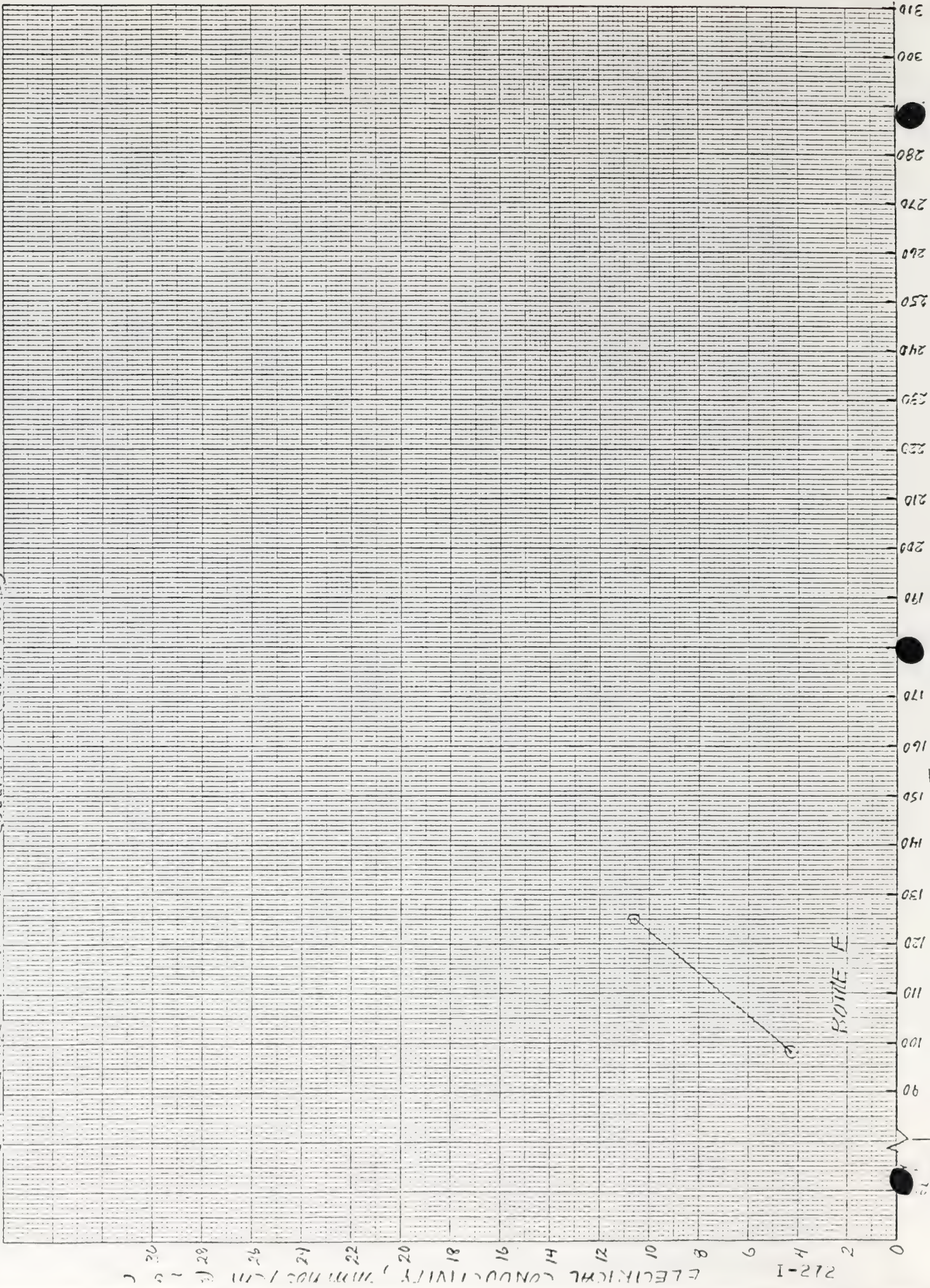


BOTTLED

C

FIGURE 9

C-A LEASE TRACT - 5 ft COLLECTOR (CONTINUED)



46 1512

KE 10 X 10 TO THE CENTIMETER 18 X 25 CM.
KEUFFEL & ESSER CO. MADE IN U.S.A.

FIGURE 10

C-A LEASE TRACT - 10 ft COLLECTOR

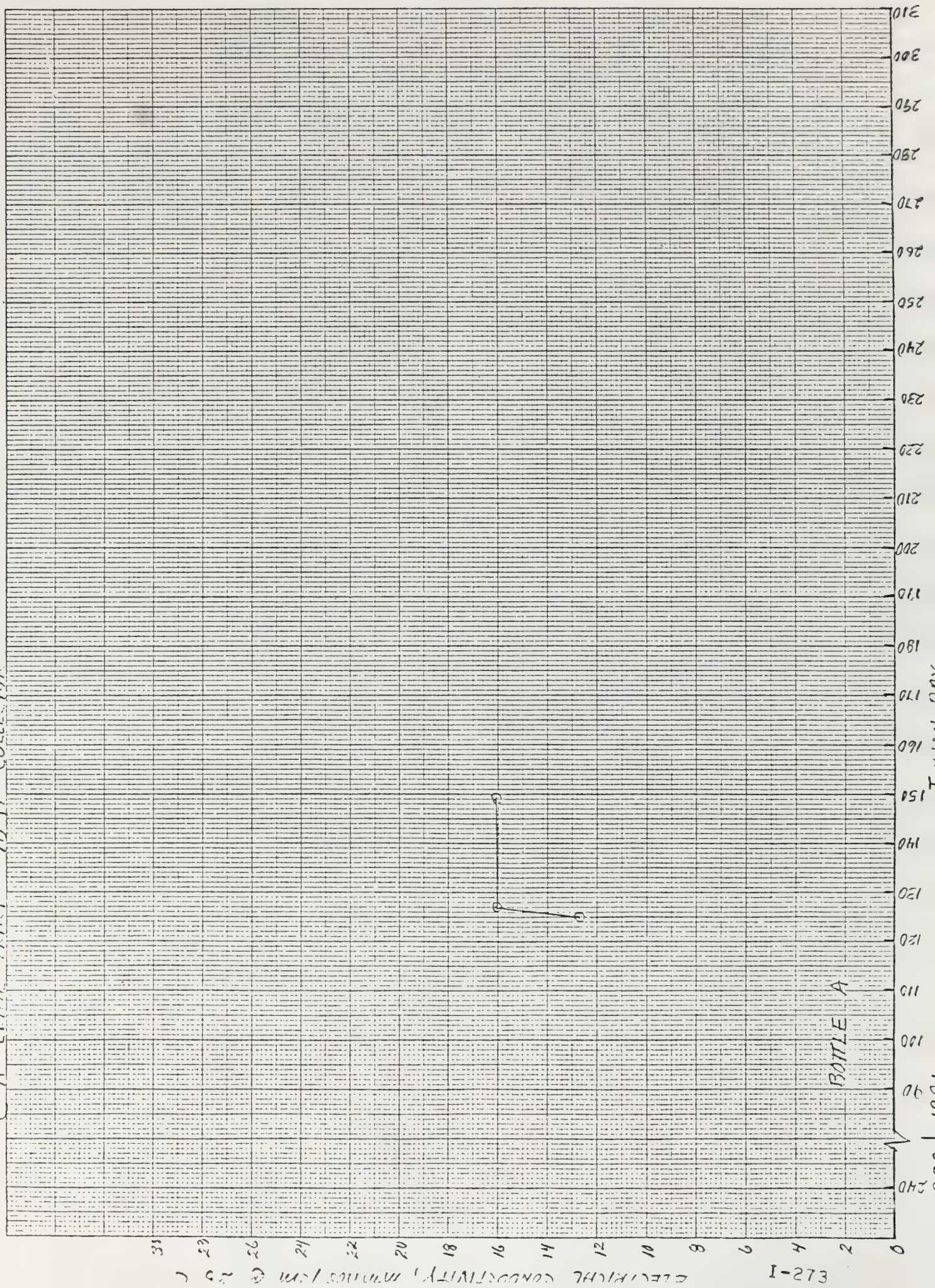


FIGURE 11
C-A LEASE TRACT - 15 ft COLLECTOR

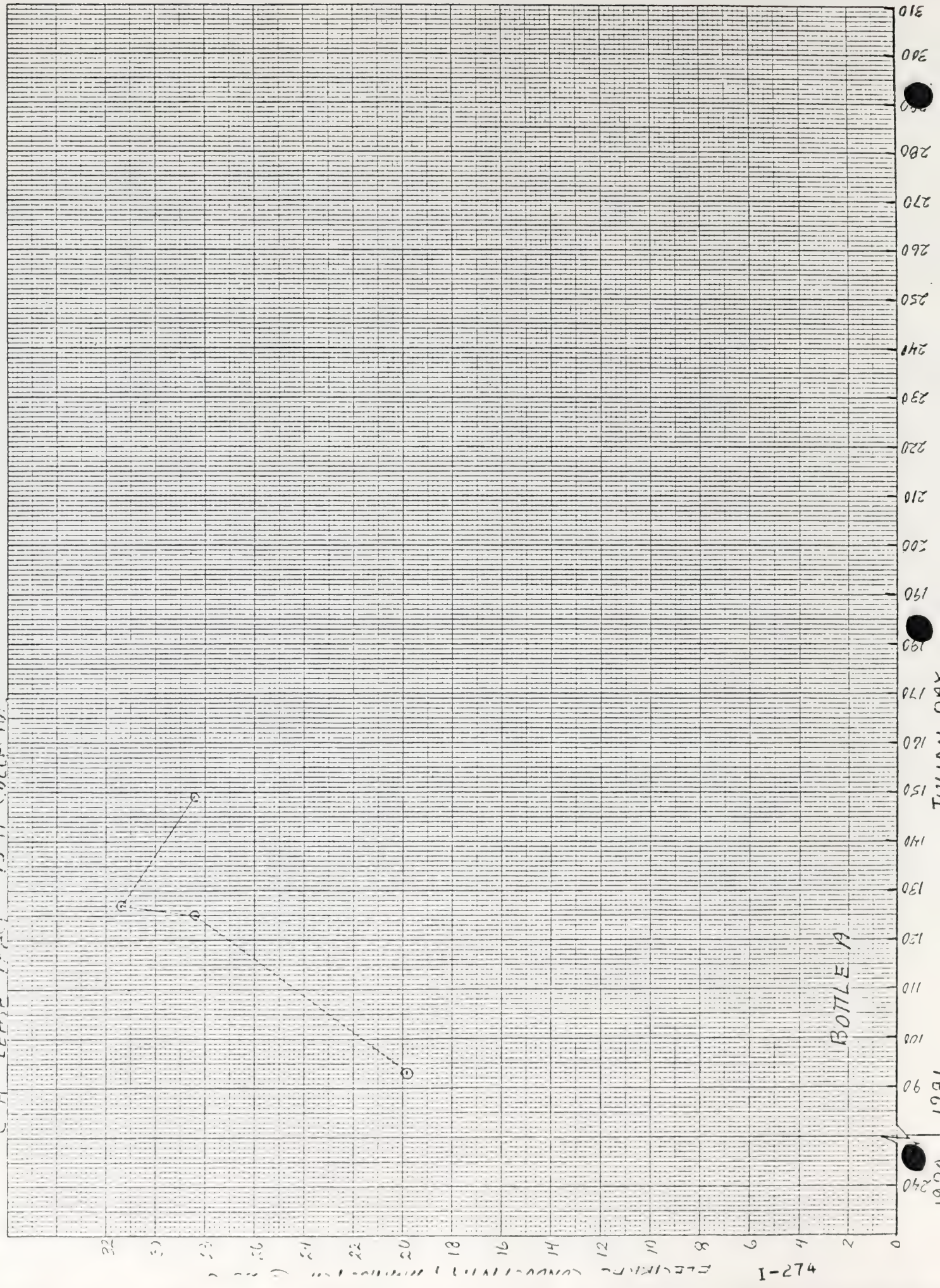


FIGURE 12
C-A LEASE TRACT - 15 FT COLLECTOR (CONTINUED)

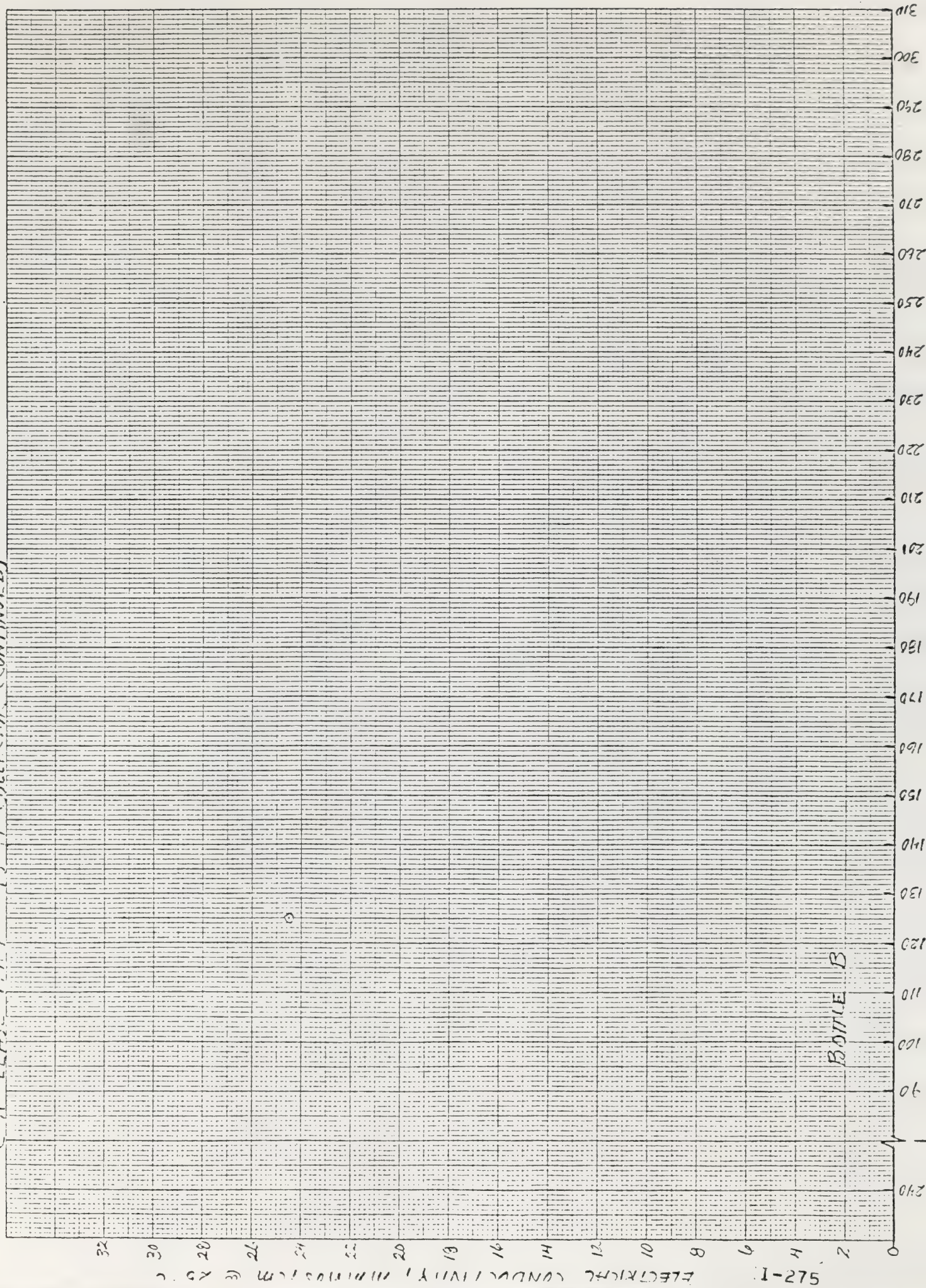


FIGURE 13
C-B LEASE TRACT - 10 ft COLLECTOR

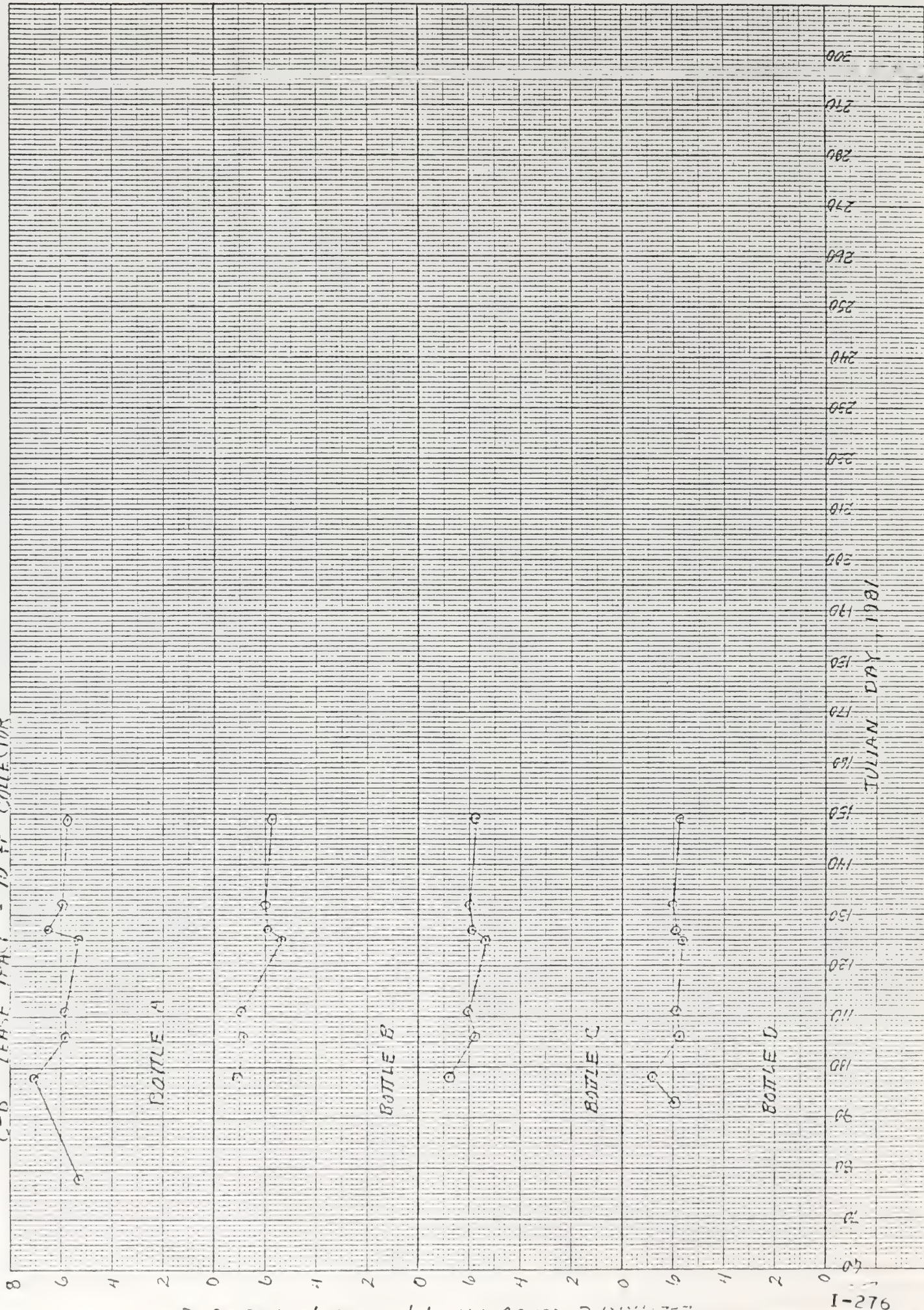


FIGURE 14

C-B LEASE TRACT - 10 ft COLLECTOR (CONTINUED)

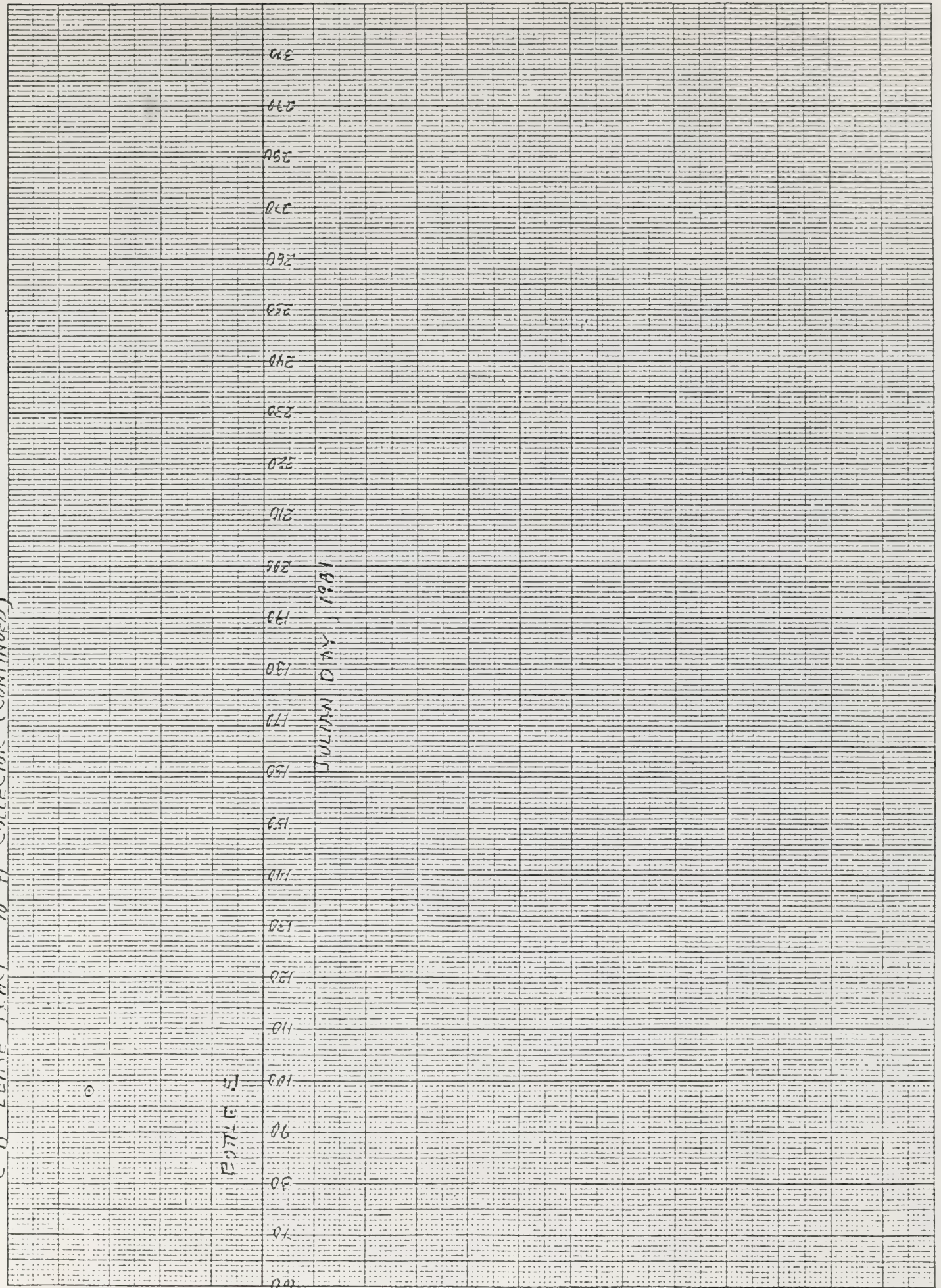


FIGURE 15

C-B LEASE TRACT - 15 ft COLLECTOR

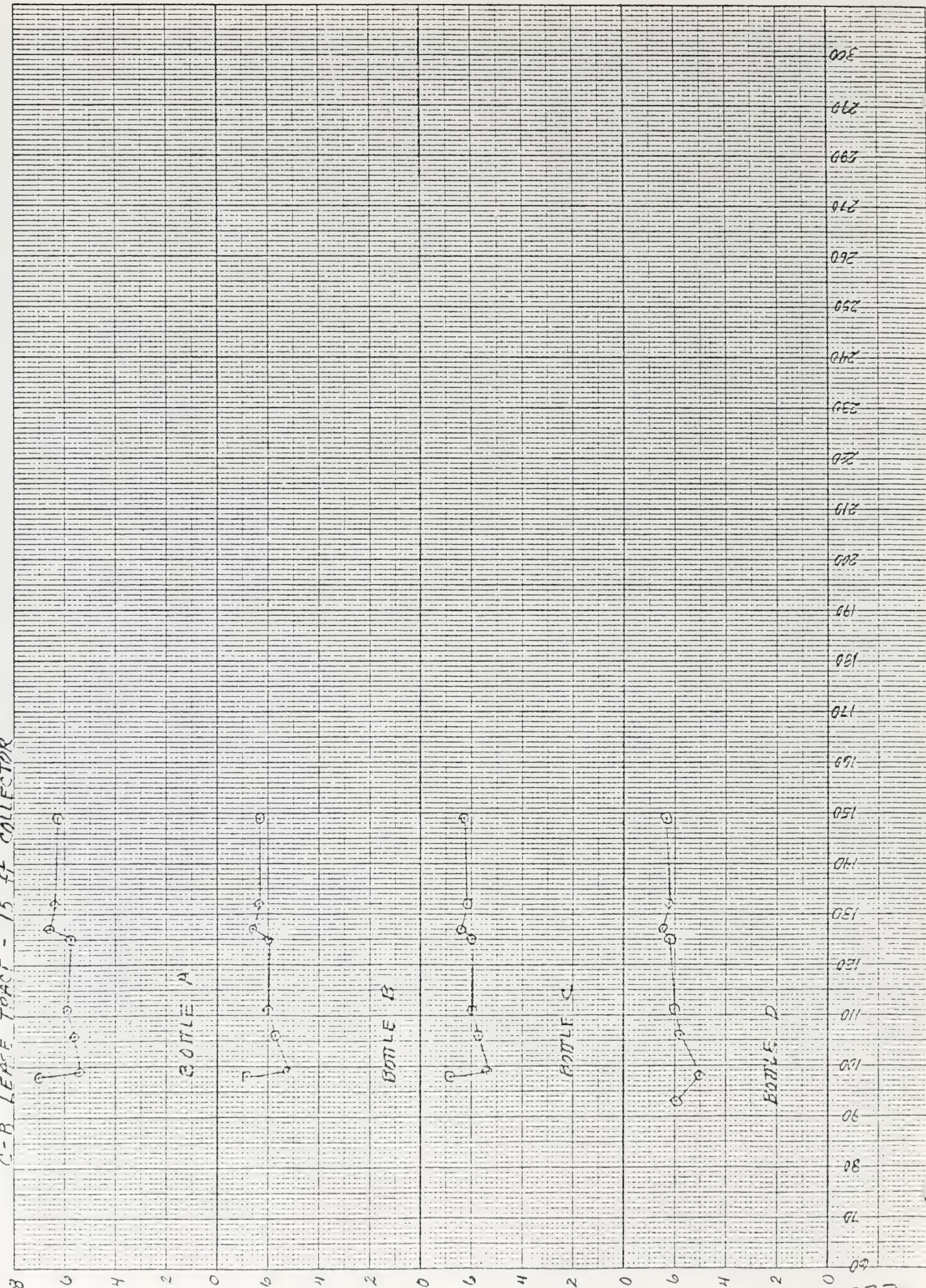


FIGURE 16

C-B LEWIS TRACT - 15 ft COLLECTOR (CONTINUED)

ELEC. COND., MMHDS/CM @ 25°

BOTTLE IN

600
500
400
300
200
100
0
100
200
300
400
500
600

FIGURE 17
C-B LEASE TRACT - 20 ft. COLLECTOR

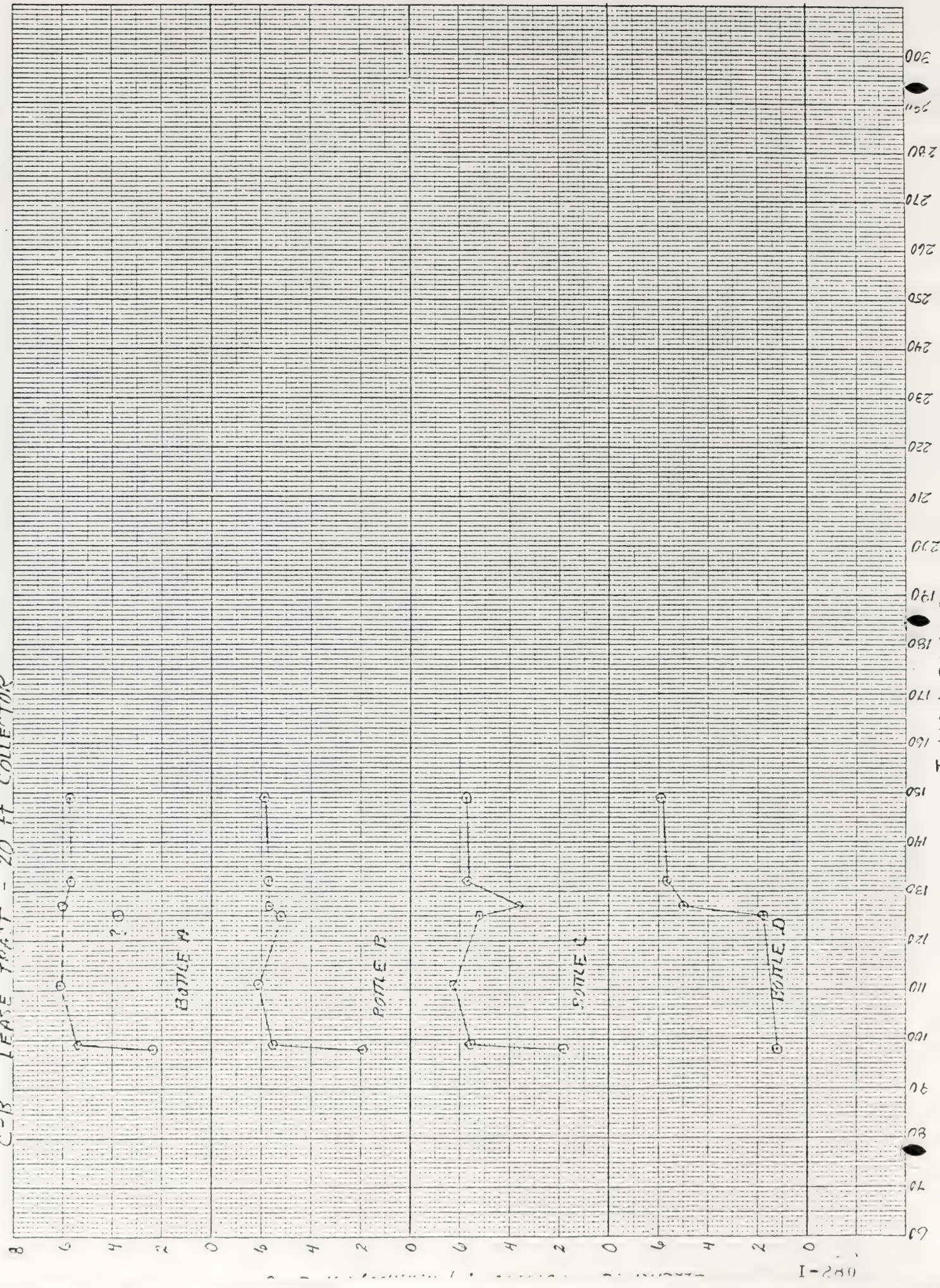
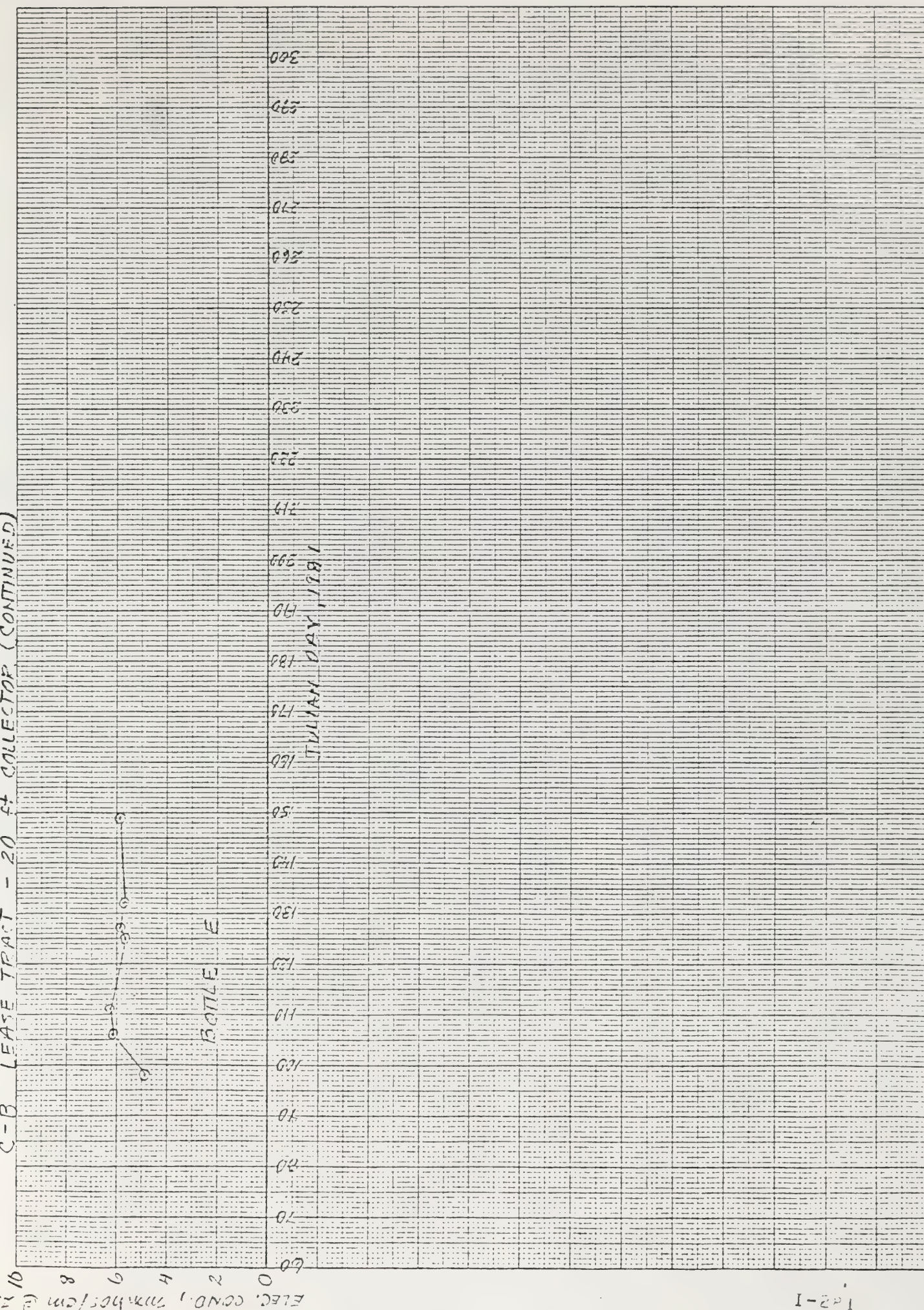


FIGURE 18

C-B LEASE TRACT - 20 ft COLLECTOR (CONTINUED)



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WATER QUALITY

2.2.2 Water Quality

This section presents water quality data of surface streams, springs and seeps, alluvial and bedrock wells, impoundments, shaft mine water, shale dumps and sediments. Stations required under the Development Monitoring Plan (DMP), the Water Augmentation Plan (WAP), and NPDES are identified within each subsection.

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**SURFACE
STREAMS**

2.2.2.1 Surface Streams

This section contains field measurement and water quality data collected from the USGS stream gauging network, Figure 2.2.1.1-1. The index to water data presented is shown in Table 2.2.2.1-1 and field measurement and water quality data are presented in Table 2.2.2.1-2 and Table 2.2.2.1-3. Remark codes used in the USGS water quality data tables are shown in Table 2.2.2.1-4.

TABLE 2.2.2.1-1

SURFACE WATER DATA PRESENTED
ENVIRONMENTAL MONITORING REPORT

Stations	Daily Discharge (Flow)	Daily Mean Sediment & Discharge Data	Daily Dissolved Oxygen	Daily pH Readings	Daily Specific Conductance	Daily Temperature	Water Quality Data
09304800*(WU48)	(ND)	X			X	X	X
09306007*(WU07)	X	X	X		X	X	X
09306015 (WU15)	X	X					
09306022*(WU22)	X	X	X	X	X	X	X
09306025 (WU25)	X	X			X	X	X
09306028 (WU28)	X	X			X	X	X
09306033 (WU33)	X	X			X	X	X
09306036 (WU36)	X	X			X	X	X
09306039 (WU39)	X	X			X	X	X
09306042 (WU42)	X	X			X	X	X
09306050 (WU50)	X	X			X	X	X
09306052 (WU52)	X	X			X	X	X
09306058*(WU58)	X	X	X	X	X	X	X
09306061*(WU61)	X	X	X	X	X	X	X
09306200*(WU00)	(ND)	X			X	X	X
09306222*(WU62)	(ND)	X			X	X	X
09306255*(WU55)	(ND)	X			X	X	X

*Major Station

(ND) = Data Not Available

TABLE 2.2.2.1-2

Index to USGS Gauging Stations Field Measurement Data

<u>Station Designation</u>	<u>Computer Code</u>	<u>Page No.</u>
09306007	WU07	I-288
09306015	WU15	I-301
09306022	WU22	I-307
09306025	WU25	I-319
09306042	WU42	I-325
09306052	WU52	I-334
09306058	WU58	I-340
09306061	WU61	I-352
09306200	WU00	I-364
09306222	WU62	I-370
09306255	WU55	I-376

Data were not available for the following six stations:

09304800
09306028
09306033
09306036
09306039
09306050

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39493409306007
LONGITUDE 1081057PICEANCE CREEK
DRAINAGE AREAREFLOW RIO BLANCO, CO.
177.00STRFAM
DATUM 6366.00SOURCE AGENCY USGS
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER						NOVEMBER						DECEMBER						JANUARY					
	MAX	MTN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN						
1	16.5	6.5	11.0	11.0	5.0	8.0	5.0	2.0	3.5	4.5	.0	2.0	4.5	.0	2.0	4.5	.0	2.0						
2	15.0	6.0	10.0	10.5	5.0	7.5	5.5	2.0	4.0	5.5	.5	2.0	4.0	.5	3.0	6.0	.5	3.0						
3	15.5	5.5	10.0	10.0	5.0	7.5	4.5	4.5	4.5	4.5	1.5	4.5	4.5	1.5	3.5	6.0	1.5	3.5						
4	16.0	5.5	10.0	11.5	6.0	8.5	---	---	---	---	---	---	---	---	4.0	6.0	2.0	4.0						
5	15.5	6.0	10.0	11.0	5.5	9.0	---	---	---	---	---	---	---	---	3.5	5.0	2.0	3.5						
6	15.5	6.0	10.5	10.0	5.0	7.0	---	---	---	---	1.0	4.0	4.0	1.0	2.5	4.0	1.0	2.5						
7	14.0	6.0	9.0	10.0	5.5	7.5	---	---	---	---	.0	3.0	3.0	.0	1.0	2.5	.0	1.0						
8	14.0	6.5	8.5	9.0	5.0	7.0	---	---	---	---	.0	3.0	3.0	.0	.5	1.5	.0	.5						
9	9.5	6.0	7.0	10.5	3.0	6.0	---	---	---	---	.5	1.5	1.5	.0	1.0	3.0	.0	1.0						
10	---	---	---	10.0	3.5	6.0	1.5	.5	1.0	4.0	.0	2.0	2.0	.0	1.5	4.0	.0	1.5						
11	8.0	5.5	6.5	9.0	3.5	6.0	3.0	.0	1.0	3.0	.0	1.0	1.0	.0	.5	2.0	.0	.5						
12	11.5	6.5	9.0	9.0	6.0	7.5	3.0	.0	1.0	3.0	.0	1.0	1.0	.0	.5	2.5	.0	.5						
13	15.0	9.0	11.0	7.0	4.5	5.5	1.5	.0	1.5	1.5	.0	1.5	1.5	.0	.5	1.5	.0	.5						
14	11.5	7.5	9.0	6.0	2.0	4.5	2.5	.0	1.0	2.0	.0	1.0	1.0	.0	.5	2.0	.0	.5						
15	10.5	6.5	8.0	5.0	.0	2.0	4.5	.0	2.0	4.5	.0	2.0	2.0	.0	1.0	3.5	.0	1.0						
16	9.0	5.0	7.0	4.5	.5	2.0	5.0	1.0	3.0	4.0	.0	1.0	3.0	.0	1.5	4.0	.0	1.5						
17	9.5	6.5	7.5	4.0	.0	2.0	5.5	1.0	3.0	5.0	1.5	3.0	3.0	1.5	2.5	5.0	1.5	2.5						
18	11.0	6.0	8.0	4.5	.0	2.0	4.5	1.5	3.5	4.5	.0	1.5	3.5	.0	2.0	4.5	.0	2.0						
19	13.5	4.5	8.5	5.0	.0	2.0	5.5	1.0	3.0	4.0	.0	1.0	3.0	.0	1.5	4.0	.0	1.5						
20	13.5	4.5	8.5	5.0	.5	2.5	5.5	.5	2.5	5.5	.0	1.5	2.5	.0	1.5	5.0	.0	1.5						
21	13.0	4.5	8.5	5.0	.0	2.0	5.0	1.0	3.0	3.5	.0	1.0	3.0	.0	1.0	3.5	.0	1.0						
22	10.5	5.5	7.5	5.5	.5	3.0	6.5	3.5	5.0	4.0	.0	1.5	5.0	.0	1.5	4.0	.0	1.5						
23	10.0	4.0	6.0	4.5	2.0	4.5	6.0	2.0	4.0	5.0	.0	1.5	4.0	.0	2.0	5.0	.0	2.0						
24	11.0	3.0	6.0	4.0	2.5	4.0	5.0	.5	2.5	5.0	.5	2.5	2.5	.5	2.5	5.0	.5	2.5						
25	10.5	3.5	6.5	5.0	1.5	3.0	6.5	3.0	4.5	5.0	.5	2.5	4.5	.5	2.5	5.0	.5	2.5						
26	8.5	5.0	7.0	4.5	.5	2.5	6.0	2.0	4.0	3.5	.5	2.0	4.0	.5	1.0	3.5	.5	1.0						
27	7.0	5.0	6.5	3.5	.0	2.0	7.0	2.0	4.0	5.0	.5	2.0	4.0	.5	3.0	5.0	.5	3.0						
28	8.0	3.5	5.5	5.5	1.0	3.0	6.5	2.5	4.0	4.5	3.0	2.5	4.0	3.0	4.5	6.5	3.0	4.5						
29	7.5	2.0	5.0	6.0	1.5	4.0	4.5	.5	2.5	7.5	3.5	2.5	2.5	3.5	5.0	7.5	3.5	5.0						
30	11.0	4.5	7.5	6.5	3.5	5.0	4.5	.0	2.0	4.0	1.5	2.0	2.0	1.5	3.0	4.0	1.5	3.0						
31	11.0	5.0	7.5	---	---	---	4.5	.0	2.5	4.0	.5	2.5	2.5	.5	1.5	4.0	.5	1.5						
MONTH	16.5	2.0	8.0	11.5	.0	4.5	7.0	.0	3.0	7.5	.0	3.0	7.5	.0	2.0	7.5	.0	2.0						

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39493409206007 PICEANCE CREEK BELOW RIO BLANCO, CO.
LONGITUDE 1081057DRAINAGE AREA 177.00 DATUM 6366.00
STREAM STATE 08 COUNTY 103

SOURCE AGENCY USGS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MTN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.5	.5	1.5	9.0	2.0	5.5	13.0	1.5	7.0	22.0	7.0	14.0
2	---	---	---	8.5	2.0	5.0	---	---	---	19.0	9.5	13.5
3	1.0	.5	.0	7.5	1.5	4.5	---	---	---	12.5	7.5	9.5
4	1.0	.5	.5	11.0	2.0	6.0	---	---	---	20.5	5.5	12.0
5	2.0	.5	.5	10.5	1.0	5.5	---	---	---	18.0	5.0	11.5
6	4.0	.5	1.5	5.0	.0	2.5	---	---	---	19.0	8.0	12.5
7	2.0	.5	1.0	7.5	1.0	4.0	4.5	5.5	7.0	16.5	5.0	10.0
8	4.5	.5	2.0	9.5	.5	4.5	11.0	3.5	7.0	13.0	5.0	7.5
9	6.0	1.5	3.5	12.0	.5	5.0	17.0	3.5	9.5	16.5	5.0	10.0
10	3.0	.5	1.5	12.0	1.0	5.5	17.5	4.0	10.0	18.0	4.5	11.0
11	---	---	---	8.0	1.0	4.0	16.5	4.0	10.0	---	---	---
12	6.0	.5	2.0	10.0	4.0	6.0	15.5	3.5	9.5	---	---	---
13	7.5	.5	3.0	10.5	1.5	5.5	18.5	5.5	11.0	19.0	9.0	15.0
14	7.0	1.0	3.5	11.0	1.5	6.0	15.0	3.5	9.5	19.5	5.5	12.5
15	9.5	2.5	5.5	13.0	1.5	6.5	16.0	7.0	10.5	16.0	8.0	12.0
16	10.0	2.0	5.5	11.0	1.5	6.0	16.5	4.5	10.0	15.0	8.0	11.0
17	7.5	2.0	4.5	7.5	2.0	4.5	17.0	4.5	10.5	13.0	7.5	10.0
18	9.0	2.0	5.0	11.0	1.5	6.0	16.0	5.0	10.5	20.0	8.0	13.5
19	9.0	1.5	5.0	11.5	2.0	6.0	18.0	8.0	11.5	15.5	7.5	12.0
20	4.5	1.0	3.0	9.0	4.5	6.5	15.5	5.5	9.5	12.0	8.0	9.5
21	7.0	.0	2.5	7.5	2.0	4.5	14.5	4.0	8.5	12.5	7.5	10.0
22	8.0	.0	3.0	11.0	1.0	5.5	16.5	5.0	10.0	14.0	7.0	10.0
23	9.5	.0	4.0	12.5	2.5	7.0	20.5	4.0	11.5	18.5	8.5	12.0
24	10.0	.0	4.5	8.0	4.0	5.5	21.0	4.5	12.5	17.0	6.0	11.0
25	8.5	.5	4.0	13.5	1.0	7.0	21.0	6.5	12.5	15.5	7.5	11.0
26	6.0	1.5	3.0	15.0	4.0	8.5	20.5	4.5	12.5	14.5	8.0	11.0
27	11.0	2.0	6.0	12.0	4.0	7.5	18.5	6.0	12.0	18.5	9.0	13.0
28	10.5	1.0	5.5	7.0	3.0	5.0	20.5	6.0	12.5	22.0	9.5	14.0
29	---	---	---	14.5	2.0	7.5	21.5	6.5	13.0	19.5	9.5	14.0
30	---	---	---	6.0	2.0	3.5	20.5	6.5	13.5	22.5	8.0	14.5
31	---	---	---	12.5	.0	5.0	---	---	---	18.0	10.5	13.0
MONTH	11.0	.0	3.0	15.0	.0	5.5	21.5	1.5	10.5	22.5	4.5	11.5

STATION NUMBER
09304007

PITCFANCE CREEK BELOW RIO BLANCO, CO.
DRAINAGE AREA 177.00

DATUM 6366.00

LONGITUDE 1081057

STATION NUMBER
LATITUDE 394934

SOURCE AGENCY USGS
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1940 TO SEPTEMBER 1941

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	8.0	14.5	17.5	13.5	15.5									
2	21.5	8.0	14.0	22.0	13.0	17.0									
3	19.0	10.0	13.0	22.5	11.0	16.5									
4	22.5	10.0	15.0	25.0	10.0	17.0									
5	24.0	4.5	15.5	26.5	10.5	18.0									
6	23.5	9.0	16.0	25.5	11.0	18.0									
7	22.0	11.0	16.5	25.0	12.0	18.5									
8	22.5	10.0	15.5	26.0	12.5	19.0									
9	23.5	10.5	16.0	23.0	13.0	17.5									
10	24.0	10.5	16.5	23.5	12.0	18.0									
11	24.0	10.0	17.0	21.5	13.0	17.5									
12	23.5	10.0	16.5	20.0	14.0	17.0									
13	22.0	9.5	15.0	20.0	14.5	17.0									
14	16.0	7.5	11.0	24.0	13.5	18.5									
15	20.5	5.5	13.0	24.5	12.0	14.5									
16	22.0	6.5	14.0	17.0	13.0	15.0									
17	21.5	8.0	15.0	18.0	12.5	14.5									
18	21.5	8.5	14.5	22.0	12.0	17.0									
19	23.0	8.5	15.5	23.5	12.0	17.5									
20	21.5	9.5	16.0	23.5	10.5	17.0									
21	23.0	9.5	16.5	24.0	11.0	17.5									
22	25.0	9.5	17.0	23.5	11.5	17.5									
23	21.0	10.0	15.5	24.5	11.5	17.5									
24	25.0	10.5	17.0	22.5	12.5	17.5									
25	24.5	10.0	17.0	24.0	13.0	18.5									
26	26.5	12.0	18.5	23.0	13.0	17.0									
27	24.0	13.0	19.0	23.0	10.5	16.5									
28	23.0	13.5	17.0	21.5	10.5	16.5									
29	24.5	11.0	17.5	21.0	11.0	16.0									
30	25.0	11.0	18.0	17.5	11.5	13.5									
31	---	---	---	---	---	---									
MONTH	26.5	5.5	15.5	26.5	10.0	17.0									
YEAR	26.5	.0	8.0												

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39493409306007 PICEANCE CREEK BELOW RIO BLANCO, CO.
LONGITUDE 1081057STREAM
DRAINAGE AREA 177.00 DATUM 6366.00 STATE OR COUNTY 103

SPECIFIC CONDUCTANCE (MICROMMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1160	1120	1150	1110	1090	1100	1060	1050	1060	1050	1040	1050
2	1160	1120	1150	1110	1090	1100	1060	1050	1060	1050	1050	1050
3	1160	1110	1140	1110	1090	1100	1060	1060	1060	1050	1040	1050
4	1160	1110	1140	1110	1090	1100	1060	1060	1060	1050	1040	1050
5	1150	1110	1140	1120	1090	1110	1060	1060	1060	1040	1000	1020
6	1150	1110	1140	1120	1090	1110	1060	1060	1060	1050	1040	1050
7	1200	1130	1160	1130	1090	1120	1060	1060	1060	1070	1020	1050
8	1170	1140	1150	1130	1090	1110	1060	1060	1060	1100	1010	1060
9	1180	1170	1180	1160	1150	1160	1060	1060	1060	1080	1010	1060
10	---	---	---	1150	1130	1140	1060	1030	1050	1070	1020	1050
11	1200	1170	1180	1150	1120	1130	1060	1030	1060	1100	1010	1060
12	1220	1150	1170	1140	1060	1110	1070	1030	1060	1080	996	1050
13	1210	1160	1180	1090	1070	1080	1080	1020	1060	1080	1000	1050
14	1210	1020	1140	1090	1070	1090	1080	1010	1060	1100	998	1060
15	1200	1120	1180	1090	1060	1080	1060	1050	1050	1070	1020	1050
16	1180	1150	1160	1090	1070	1080	1050	1050	1050	1060	1030	1050
17	1180	1160	1170	1080	1060	1090	1050	1040	1050	1050	1040	1050
18	1170	1160	1170	1080	1060	1070	1050	1040	1050	1060	1030	1050
19	1160	1140	1160	1080	1070	1070	1050	1040	1050	1070	1030	1050
20	1150	1130	1140	1080	1060	1070	1050	1040	1050	1060	1030	1050
21	1140	1110	1130	1080	1060	1070	1050	1040	1050	1090	1020	1050
22	1110	1090	1100	1070	1060	1060	1050	1040	1040	1080	1020	1050
23	1220	1160	1180	1070	1050	1060	1050	1020	1040	1080	1030	1050
24	1210	1170	1190	1070	1050	1060	1050	1040	1050	1050	1040	1050
25	1110	1070	1090	1060	1050	1060	1050	1040	1050	1050	1040	1040
26	1110	1080	1100	1060	1050	1060	1050	1040	1050	1090	994	1050
27	1100	1060	1080	1080	1010	1040	1050	1040	1040	1050	1040	1040
28	1090	1060	1080	1070	1050	1060	1050	1040	1050	1050	1040	1040
29	1150	1130	1140	1070	1050	1060	1050	1040	1050	1040	1030	1040
30	1100	1070	1090	1060	1050	1060	1050	1040	1050	1050	1030	1040
31	1100	1080	1090	1090	---	---	1060	1040	1050	1040	1010	1030
MONTH	1220	1020	1140	1190	1010	1090	1080	1010	1050	1100	994	1050

STATION NUMBER 09304007 PICEANCE CREEK BELOW RIO PLANCO, CO. SOURCE AGENCY USGS
 LATITUDE 394934 LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROHMS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN
1	1160	1120	1150	1110	1090	1100	1060	1050	1060	1050	1060	1050	1040	1050	1050	1050
2	1160	1120	1150	1110	1090	1100	1060	1050	1060	1050	1060	1050	1040	1050	1050	1050
3	1160	1110	1140	1110	1080	1100	1060	1060	1060	1060	1060	1050	1040	1050	1050	1050
4	1160	1110	1140	1110	1080	1100	1060	1060	1060	1060	1060	1050	1040	1050	1050	1050
5	1150	1110	1140	1120	1090	1110	1060	1060	1060	1060	1060	1040	1000	1020	1020	1020
6	1150	1110	1140	1120	1080	1110	1060	1060	1060	1060	1060	1050	1040	1050	1050	1050
7	1200	1130	1160	1130	1090	1120	1070	1070	1070	1070	1070	1070	1020	1050	1050	1050
8	1170	1140	1150	1130	1100	1120	1080	1080	1080	1080	1080	1100	1010	1060	1060	1060
9	1180	1170	1180	1160	1150	1160	1140	1140	1140	1140	1140	1080	1010	1060	1060	1060
10	---	---	---	1150	1130	1140	1060	1060	1060	1060	1060	1070	1020	1050	1050	1050
11	1200	1170	1180	1150	1120	1130	1090	1090	1090	1090	1090	1100	1010	1060	1060	1060
12	1220	1150	1170	1140	1060	1110	1070	1070	1070	1070	1070	1080	996	1050	1050	1050
13	1210	1140	1180	1090	1070	1080	1040	1040	1040	1040	1040	1020	1000	1050	1050	1050
14	1210	1120	1180	1090	1070	1080	1040	1040	1040	1040	1040	1100	998	1060	1060	1060
15	1200	1120	1180	1090	1060	1080	1040	1040	1040	1040	1040	1070	1020	1050	1050	1050
16	1180	1150	1160	1090	1070	1080	1040	1040	1040	1040	1040	1060	1030	1050	1050	1050
17	1180	1150	1170	1080	1060	1080	1040	1040	1040	1040	1040	1050	1040	1050	1050	1050
18	1170	1150	1170	1080	1060	1070	1040	1040	1040	1040	1040	1060	1030	1050	1050	1050
19	1160	1140	1160	1080	1070	1070	1040	1040	1040	1040	1040	1070	1030	1050	1050	1050
20	1150	1130	1140	1080	1060	1070	1040	1040	1040	1040	1040	1060	1030	1050	1050	1050
21	1140	1110	1130	1080	1060	1070	1040	1040	1040	1040	1040	1090	1020	1050	1050	1050
22	1110	1090	1100	1070	1060	1060	1050	1050	1050	1050	1050	1040	1020	1050	1050	1050
23	1220	1140	1180	1070	1050	1060	1040	1040	1040	1040	1040	1040	1030	1050	1050	1050
24	1210	1170	1190	1070	1050	1060	1040	1040	1040	1040	1040	1050	1040	1050	1050	1050
25	1110	1070	1090	1060	1050	1060	1050	1050	1050	1050	1050	1050	1040	1040	1040	1040
26	1110	1080	1100	1060	1050	1060	1050	1050	1050	1050	1050	1090	994	1050	1050	1050
27	1100	1060	1080	1080	1010	1040	1050	1050	1050	1050	1050	1050	1040	1040	1040	1040
28	1090	1060	1080	1070	1050	1060	1050	1050	1050	1050	1050	1050	1040	1040	1040	1040
29	1150	1130	1140	1070	1050	1060	1050	1050	1050	1050	1050	1050	1030	1040	1040	1040
30	1100	1070	1090	1060	1050	1060	1050	1050	1050	1050	1050	1050	1030	1040	1040	1040
31	1100	1080	1090	1060	1050	1060	1050	1050	1050	1050	1050	1040	1010	1030	1030	1030
MONTH	1220	1020	1140	1190	1010	1090	1080	1010	1080	1010	1050	1100	994	1050	1050	1050

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
1411100 394934

09206007 PICEANCE CREEK BELOW RIO BLANCO, CO.
LONGITUDE 1091057 DRAINAGE AREA 177.00

STREAM
6365.00 STATE OR COUNTY 103

SOURCE AGENCY USGS

SPECIFIC CONDUCTANCE (MICROMMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1080	1030	1040	1040	1020	1030	1040	1020	1030	1100	1040	1080
2	---	---	---	1050	1030	1040	---	---	---	1100	1040	1070
3	1120	988	1050	1060	1040	1050	---	---	---	1100	1020	1070
4	1110	982	1050	1070	1040	1050	---	---	---	1120	1050	1090
5	1100	952	1020	1070	1050	1070	---	---	---	1120	1050	1080
6	1070	1010	1050	1060	970	1030	---	---	---	1180	1050	1080
7	1130	984	1060	1050	1010	1040	990	980	983	1220	1160	1200
8	1080	994	1050	1060	1040	1050	1010	978	988	1250	1170	1210
9	1050	1030	1040	1040	1050	1050	1030	1010	1010	1210	1060	1130
10	1060	912	1030	1070	1030	1050	1030	1000	1010	1120	1060	1090
11	---	---	---	1050	1030	1050	1050	940	984	---	---	---
12	1040	950	1020	1050	1040	1050	1100	1040	1070	---	---	---
13	1070	1020	1030	1050	1030	1050	1140	1080	1110	1110	1070	1090
14	1040	1020	1030	1050	1030	1050	1280	1130	1160	1120	1070	1100
15	1040	982	1020	1050	1030	1040	1250	1160	1200	1110	1070	1090
16	1040	986	1020	1050	1030	1040	1240	1200	1210	1120	1070	1090
17	1040	1000	1030	1040	1010	1030	1250	1180	1210	1100	1060	1080
18	1040	1010	1020	1040	1030	1040	1300	1250	1280	1140	1070	1110
19	1040	930	1010	1050	1030	1040	1310	1270	1290	1190	1120	1150
20	1080	946	1000	1050	1020	1040	1310	1270	1290	1200	1190	1200
21	1040	1010	1030	1040	1010	1020	1300	1290	1290	1300	1280	1290
22	1060	1010	1030	1050	1030	1040	1310	1280	1300	1340	1290	1320
23	1040	1020	1030	1050	1020	1040	1320	1300	1310	1330	1290	1300
24	1070	878	1030	1050	1000	1030	1340	1300	1320	1350	1300	1320
25	1050	922	1000	1050	1010	1040	1360	1310	1320	1320	1290	1310
26	994	928	972	1050	1010	1030	1300	1260	1240	1350	1290	1320
27	1020	976	1010	1070	984	1020	1310	1070	1240	1360	1250	1300
28	1040	1000	1020	1010	978	995	1070	1030	1240	1300	1220	1250
29	---	---	---	1040	1010	1020	1060	1020	1050	1270	1230	1250
30	---	---	---	1040	974	1000	1080	1040	1040	1280	1220	1240
31	---	---	---	1060	1020	1030	---	---	---	1250	1190	1230
MONTH	1130	878	1030	1080	970	1040	1390	940	1160	1360	1020	1180

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATF 08 COUNTY 103

SIRFAM
DATUM 6366.00

09306007 PICEANCE CREEK REFLOW RIO BLANCO, CO.
DRAINAGE AREA 177.00

STATION NUMBER
LATITUDE 394934

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1990 TO SEPTEMBER 1981

DAY	JUNE				JULY				AUGUST				SEPTEMBER			
	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN	
1	1250	1200	1220		1170	1150	1160									
2	1260	1200	1230		1170	1150	1160									
3	1260	1200	1240		1190	1150	1170									
4	1260	1220	1240		1170	1110	1140									
5	1260	1200	1240		1150	1100	1130									
6	1210	1170	1190		1150	1090	1120									
7	1220	1170	1190		1160	1090	1130									
8	1280	1190	1230		1160	1090	1130									
9	1290	1240	1270		1180	1060	1130									
10	1290	1260	1250		1090	1040	1060									
11	1270	1150	1180		1090	1020	1060									
12	1170	1150	1160		1070	1020	1050									
13	1160	1120	1140		1130	1030	1090									
14	1150	1120	1140		1130	1070	1110									
15	1150	1100	1130		1170	1090	1130									
16	1160	1140	1150		1180	1130	1150									
17	1210	1150	1180		1180	1120	1150									
18	1180	1150	1170		1170	1110	1140									
19	1200	1180	1190		1180	1110	1150									
20	1220	1150	1190		1180	1120	1150									
21	1210	1140	1170		1180	1140	1160									
22	1190	1130	1160		1260	1180	1230									
23	1150	1070	1120		1250	1170	1220									
24	1070	1030	1060		1230	1150	1200									
25	1070	1020	1050		1210	1150	1130									
26	1060	1010	1050		1230	1170	1200									
27	1100	1030	1060		1210	1150	1190									
28	1070	1030	1050		1210	1150	1150									
29	1130	1030	1090		1210	1150	1180									
30	1170	1130	1160		1210	1170	1200									
31	---	---	---		---	---	---									
MONTH	1290	1010	1160		1260	1020	1150									
YEAR	1390	878	1110													

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 394934

09305007 PICEANCE CREEK REFLOW RIO BLANCO, CO.
LONGITUDE 1091057

SOURCE AGENCY USGS
STATE 08 COUNTY 103

OXYGEN DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	10.7	8.6	9.7	10.4	7.7	8.9	10.5	8.9	10.7	9.4	9.4	10.7	9.1	9.8	10.7	9.1
2	10.6	8.8	9.7	10.5	7.8	8.9	10.4	8.5	10.7	9.4	9.4	10.7	8.7	9.6	10.7	8.7
3	10.6	8.7	9.6	10.7	7.7	8.9	9.3	8.7	10.6	9.8	9.8	10.6	8.7	9.5	10.6	8.7
4	10.4	8.6	9.5	10.5	7.4	8.7	---	---	---	---	---	10.4	8.6	9.4	10.4	8.6
5	10.2	8.6	9.4	10.5	7.6	8.8	---	---	---	---	---	10.5	8.9	9.5	10.5	8.9
6	10.1	8.1	9.2	11.0	8.0	9.1	---	---	---	---	---	10.7	9.3	9.8	10.7	9.3
7	11.2	8.3	10.0	10.9	8.4	9.2	---	---	---	---	---	10.7	9.7	10.0	10.7	9.7
8	11.1	9.1	10.1	11.7	8.5	9.7	---	---	---	---	---	10.7	9.7	10.1	10.7	9.7
9	10.4	9.1	9.7	11.6	8.3	9.6	---	---	---	---	---	10.6	9.5	10.1	10.6	9.5
10	---	---	---	11.6	8.3	9.7	---	---	---	---	---	10.7	9.3	10.1	10.7	9.3
11	10.5	8.7	9.6	11.7	8.1	9.6	---	---	---	---	---	10.7	9.8	10.2	10.7	9.8
12	9.9	8.2	9.0	10.5	8.3	8.9	---	---	---	---	---	10.8	9.6	10.2	10.8	9.6
13	8.8	7.2	8.0	10.3	8.8	9.4	---	---	---	---	---	10.7	9.8	10.2	10.7	9.8
14	9.2	7.6	8.1	11.0	9.4	10.0	---	---	---	---	---	10.5	9.8	10.2	10.5	9.8
15	9.2	8.0	8.5	11.4	9.5	10.4	---	---	---	---	---	10.6	9.4	10.1	10.6	9.4
16	9.8	8.1	8.7	11.3	9.6	10.4	11.4	9.3	10.8	10.1	10.1	10.8	8.3	9.5	10.8	8.3
17	9.5	8.2	8.8	11.1	9.5	10.2	10.6	9.0	9.7	9.7	9.7	10.0	8.0	9.1	10.0	8.0
18	9.8	8.0	8.8	11.1	9.4	10.1	10.6	8.8	9.6	9.6	9.6	10.8	8.1	9.5	10.8	8.1
19	9.9	7.7	8.7	11.2	9.3	10.2	10.7	8.9	9.7	9.7	9.7	10.7	8.3	9.5	10.7	8.3
20	10.0	7.6	8.7	11.2	9.3	10.1	10.7	8.8	9.7	9.7	9.7	10.7	8.0	9.4	10.7	8.0
21	10.1	7.6	8.8	11.2	9.2	10.1	10.5	8.8	9.6	9.6	9.6	10.9	8.7	9.9	10.9	8.7
22	10.2	8.3	9.0	10.8	9.0	9.9	10.2	8.4	9.1	9.1	9.1	10.8	8.3	9.8	10.8	8.3
23	10.3	8.5	9.4	10.8	8.8	9.6	10.3	8.8	9.3	9.3	9.3	10.7	7.9	9.5	10.7	7.9
24	10.9	8.4	9.4	10.4	9.1	9.6	10.5	8.9	9.6	9.6	9.6	10.4	8.0	9.1	10.4	8.0
25	10.5	8.0	9.3	11.1	9.1	9.9	10.2	8.5	9.2	9.2	9.2	10.4	8.2	9.1	10.4	8.2
26	10.3	8.2	9.0	11.3	9.2	10.1	10.4	8.6	9.3	9.3	9.3	10.6	8.6	9.8	10.6	8.6
27	10.3	8.4	9.0	10.8	9.2	9.9	10.5	8.4	9.3	9.3	9.3	10.8	9.4	10.5	10.8	9.4
28	10.6	8.7	9.6	10.9	8.9	9.7	10.3	8.5	9.3	9.3	9.3	10.0	9.1	9.6	10.0	9.1
29	10.5	8.3	9.0	10.7	8.6	9.5	10.6	9.0	9.6	9.6	9.6	9.9	9.0	9.5	9.9	9.0
30	10.4	7.9	9.0	10.4	8.4	9.2	10.5	8.9	9.6	9.6	9.6	10.2	9.6	9.9	10.2	9.6
31	10.4	7.8	9.0	---	---	---	10.5	9.0	9.6	9.6	9.6	10.6	9.9	10.3	10.6	9.9
MONTH	11.2	7.2	9.1	11.7	7.4	9.6	11.4	8.4	9.5	9.5	9.5	10.9	7.9	9.8	10.9	7.9

STATION NUMBER
LATITUDE 394934

09306007 PITCHANCE CREEK BELOW RIO BLANCO, CO.
LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00 STATE 08 COUNTY 103

SOURCE AGENCY USGS

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1940 TO SEPTEMBER 1981

DAY	FEBRUARY						MARCH						APRIL						MAY					
	MAX	MTN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN			
1	10.6	10.0	10.4	10.6	9.0	9.8	10.6	9.0	9.8	10.6	8.8	9.5	9.5	6.7	8.2	9.5	6.7	9.5	9.5	6.7	8.2			
2	---	---	---	10.6	9.2	9.9	10.6	9.2	9.9	---	---	---	---	---	---	---	---	---	---	---	---			
3	10.6	10.3	10.5	10.7	9.3	10.0	10.7	9.3	10.0	---	---	---	---	---	---	---	---	---	---	---	---			
4	10.6	9.9	10.4	10.6	8.8	9.7	10.5	8.8	9.7	---	---	---	---	---	---	---	---	---	---	---	---			
5	10.7	10.1	10.4	10.8	8.7	9.8	10.8	8.7	9.8	---	---	---	---	---	---	---	---	---	---	---	---			
6	10.7	9.7	10.3	10.9	9.7	10.4	10.9	9.7	10.4	---	---	---	---	---	---	---	---	---	---	---	---			
7	10.6	10.0	10.4	10.7	9.7	10.3	10.7	9.7	10.3	10.1	9.6	9.8	9.8	6.9	8.3	9.8	6.9	9.8	9.8	6.9	8.3			
8	10.7	9.6	10.2	11.1	9.2	10.2	11.1	9.2	10.2	10.5	9.3	9.9	9.9	7.2	8.3	9.9	7.2	9.9	9.9	7.2	8.3			
9	10.3	9.2	9.8	11.3	8.8	10.1	11.3	8.8	10.1	10.5	8.5	9.4	9.4	6.7	8.0	9.4	6.7	9.4	9.4	6.7	8.0			
10	10.8	9.8	10.4	11.1	8.9	10.1	11.1	8.9	10.1	10.4	8.3	9.4	9.4	6.4	8.0	9.4	6.4	9.4	9.4	6.4	8.0			
11	---	---	---	11.1	9.6	10.4	11.1	9.6	10.4	10.3	8.3	9.2	9.2	---	---	---	---	---	---	---	---			
12	10.8	9.3	10.3	10.5	9.1	9.9	10.5	9.1	9.9	10.4	8.3	9.4	9.4	---	---	---	---	---	---	---	---			
13	11.0	9.2	10.2	11.0	9.0	10.0	11.0	9.0	10.0	10.2	7.7	9.0	9.0	5.8	7.6	9.0	5.8	9.0	9.0	5.8	7.6			
14	10.7	9.2	10.0	11.0	8.9	10.0	11.0	8.9	10.0	10.3	7.4	8.9	8.9	6.1	7.9	9.3	6.1	9.3	9.3	6.1	7.9			
15	10.4	8.7	9.6	11.1	8.7	9.9	11.1	8.7	9.9	10.1	7.4	8.7	8.7	6.2	7.4	8.7	6.2	8.7	8.7	6.2	7.4			
16	10.4	8.6	9.5	11.0	9.0	9.9	11.0	9.0	9.9	10.8	8.1	9.6	9.6	6.4	7.4	9.6	6.4	9.6	9.6	6.4	7.4			
17	10.3	9.0	9.7	10.7	9.6	10.1	10.7	9.6	10.1	10.4	6.5	8.6	8.6	6.4	7.5	8.6	6.4	8.6	8.6	6.4	7.5			
18	10.4	8.8	9.6	10.9	9.0	10.0	10.9	9.0	10.0	10.0	6.4	8.2	8.2	7.2	7.2	8.2	7.2	8.2	8.2	7.2	7.2			
19	10.5	8.8	9.6	10.7	8.9	9.8	10.7	8.9	9.8	9.3	6.5	7.8	7.8	6.0	7.5	9.2	6.0	9.2	9.2	6.0	7.5			
20	10.5	9.5	9.9	10.1	9.0	9.6	10.1	9.0	9.6	9.7	6.8	8.2	8.2	7.0	8.0	9.4	7.0	9.4	9.4	7.0	8.0			
21	10.9	9.2	10.2	10.6	9.5	10.0	10.6	9.5	10.0	9.7	6.9	8.3	8.3	6.0	8.8	10.7	6.0	10.7	10.7	6.0	8.8			
22	10.9	8.9	10.1	11.0	9.0	10.0	11.0	9.0	10.0	9.8	6.3	8.2	8.2	6.1	8.0	10.7	6.1	10.7	10.7	6.1	8.0			
23	10.8	8.5	9.7	10.6	8.7	9.7	10.6	8.7	9.7	9.7	5.7	7.9	7.9	6.1	8.0	10.1	6.1	10.1	10.1	6.1	8.0			
24	10.6	8.3	9.6	10.5	9.3	9.9	10.5	9.3	9.9	8.7	5.7	7.3	7.3	6.6	8.0	9.5	6.6	9.5	9.5	6.6	8.0			
25	10.6	8.2	9.5	10.8	8.4	9.7	10.8	8.4	9.7	9.1	5.9	7.4	7.4	6.6	7.9	9.5	6.6	9.5	9.5	6.6	7.9			
26	10.4	9.6	10.0	10.2	8.2	9.2	10.2	8.2	9.2	8.6	5.6	7.3	7.3	6.7	8.0	9.5	6.7	9.5	9.5	6.7	8.0			
27	10.5	8.6	9.6	9.7	8.5	9.1	9.7	8.5	9.1	8.8	6.5	7.6	7.6	6.2	8.0	10.0	6.2	10.0	10.0	6.2	8.0			
28	10.8	8.7	9.8	10.3	9.4	9.8	10.3	9.4	9.8	9.1	6.5	7.7	7.7	6.0	7.6	10.0	6.0	10.0	10.0	6.0	7.6			
29	---	---	---	10.5	8.3	9.5	10.5	8.3	9.5	9.1	6.2	7.6	7.6	6.5	7.8	9.1	6.5	9.1	9.1	6.5	7.8			
30	---	---	---	10.3	9.3	9.9	10.3	9.3	9.9	8.8	7.0	7.9	7.9	5.9	7.7	9.3	5.9	9.3	9.3	5.9	7.7			
31	---	---	---	10.9	8.8	10.0	10.9	8.8	10.0	---	---	---	---	6.9	7.7	---	6.9	---	---	---	7.7			
MONTH	11.0	8.2	10.0	11.3	8.2	9.9	10.8	8.2	9.9	10.8	5.6	8.5	8.5	5.8	7.9	10.7	5.8	10.7	10.7	5.8	7.9			

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATF 08 COUNTY 103

0.	STRFAM
177.00	DATUM 6366.00

09306007 PICEANCE CREEK BELOW RIO BLANCO. CO. 177
LONGITUDE 1081057 DRAINAGE AREA

STATION NUMBER
LATITUDE 394934

OXYGEN. DISSOLVED (DO). MG/L. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 394934

09306007 PICEANCE CREEK BELOW RIO BLANCO, CO.
LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 4366.00

SOURCE AGENCY USGS
STATE 08 COUNTY 103

PH (STANDARD UNITS). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	8.3	8.3	8.3	8.1	7.9	7.9	8.3	8.2	8.3	8.2	8.2	8.7	8.6	8.6	8.7	8.6
2	8.4	8.3	8.3	8.1	7.8	7.9	8.4	8.2	8.4	8.2	8.2	8.7	8.6	8.6	8.7	8.6
3	8.4	8.3	8.3	8.1	7.8	7.9	8.2	8.2	8.2	8.2	8.2	8.6	8.5	8.5	8.6	8.5
4	8.4	8.3	8.3	8.1	7.8	7.9	---	---	---	---	---	8.6	8.5	8.5	8.5	8.5
5	8.4	8.3	8.3	8.1	7.8	7.9	---	---	---	---	---	8.6	8.5	8.5	8.5	8.5
6	8.4	8.2	8.3	8.2	7.8	7.9	---	---	---	---	---	8.5	8.4	8.4	8.5	8.5
7	8.3	8.1	8.2	8.2	7.9	8.0	---	---	---	---	---	8.5	8.4	8.4	8.5	8.5
8	8.2	8.0	8.1	8.2	7.9	8.0	---	---	---	---	---	8.5	8.4	8.4	8.5	8.5
9	---	---	---	8.2	7.9	8.0	---	---	---	---	---	8.5	8.4	8.4	8.5	8.5
10	---	---	---	8.2	7.9	8.0	---	---	---	---	---	8.5	8.5	8.5	8.5	8.5
11	8.1	8.0	8.1	8.2	7.9	8.0	8.4	8.2	8.4	8.2	8.3	8.5	8.4	8.4	8.5	8.5
12	8.1	7.9	8.0	8.2	7.9	8.0	8.2	8.2	8.2	8.2	8.2	8.5	8.4	8.4	8.5	8.5
13	8.0	7.3	7.9	8.2	8.0	8.1	8.2	8.1	8.1	8.1	8.1	8.5	8.5	8.5	8.5	8.5
14	7.9	7.8	7.8	8.3	8.1	8.2	8.1	8.1	8.1	8.1	8.1	8.5	8.5	8.5	8.5	8.5
15	8.0	7.9	7.9	8.3	8.1	8.2	8.1	8.1	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5
16	8.0	7.9	7.9	8.3	8.1	8.2	8.1	8.1	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5
17	8.1	7.9	8.0	8.3	8.1	8.2	8.1	8.1	8.0	8.0	8.0	8.5	8.5	8.5	8.5	8.5
18	8.1	7.9	8.0	8.3	8.1	8.2	8.1	8.1	8.0	8.0	8.1	8.5	8.5	8.5	8.5	8.5
19	8.1	7.9	8.0	8.3	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.5	8.5	8.5	8.5	8.5
20	8.2	7.9	8.0	8.3	8.2	8.2	8.2	8.2	8.1	8.1	8.2	8.5	8.5	8.5	8.5	8.5
21	8.2	8.0	8.0	8.3	8.2	8.2	8.3	8.1	8.1	8.1	8.2	8.5	8.5	8.5	8.5	8.5
22	8.2	8.0	8.1	8.3	8.2	8.2	8.3	8.2	8.1	8.2	8.2	8.5	8.5	8.5	8.5	8.5
23	8.2	8.0	8.1	8.4	8.1	8.2	8.3	8.2	8.2	8.2	8.2	8.5	8.5	8.5	8.5	8.5
24	8.3	8.0	8.1	8.3	8.1	8.2	8.4	8.3	8.3	8.3	8.3	8.5	8.5	8.5	8.5	8.5
25	8.3	8.0	8.1	8.4	8.2	8.2	8.4	8.3	8.3	8.3	8.3	8.5	8.5	8.5	8.5	8.5
26	8.3	8.0	8.1	8.4	8.2	8.2	8.4	8.3	8.3	8.3	8.4	8.5	8.5	8.5	8.5	8.5
27	8.2	8.0	8.1	8.3	8.2	8.2	8.5	8.4	8.4	8.4	8.4	8.5	8.5	8.5	8.5	8.5
28	8.2	8.0	8.1	8.3	8.2	8.2	8.5	8.4	8.4	8.4	8.4	8.5	8.5	8.5	8.5	8.5
29	8.1	7.9	8.0	8.4	8.2	8.2	8.5	8.4	8.4	8.4	8.5	8.5	8.4	8.4	8.5	8.5
30	8.2	7.9	8.0	8.4	8.2	8.2	8.6	8.5	8.5	8.5	8.5	8.5	8.4	8.4	8.5	8.5
31	8.1	7.9	8.0	---	---	---	8.7	8.5	8.5	8.5	8.6	8.5	8.5	8.5	8.5	8.5
MONTH	8.4	7.8	8.1	8.4	7.8	8.1	8.7	8.0	8.7	8.0	8.2	8.7	8.4	8.4	8.5	8.5

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 394934

09306007 PISCANCE CREEK BELOW RIO BLANCO, CO.
LONGITUDE 1081057 DRAINAGE AREA 177.00

SOURCE AGENCY USGS
STATE OR COUNTY 103

DATA (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY				MARCH				MAX	MEAN	MIN	APRIL				MAX	MEAN	MIN	MAY				MAX	MEAN
	MAX	MIN	MEAN	STDEV	MAX	MIN	MEAN	STDEV				MAX	MIN	MEAN	STDEV				MAX	MIN	MEAN	STDEV		
1	8.5	8.5	8.5		8.5	8.5	8.5		8.5	8.5	8.5	8.5	8.5	8.5		8.5	8.5	8.5	8.5	8.5	8.5		8.5	8.5
2	---	---	---		8.5	8.5	8.5		8.5	8.5	8.5	8.5	8.5	8.5		8.5	8.5	8.5	8.5	8.5	8.5		8.5	8.5
3	8.5	8.4	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
4	8.5	8.4	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
5	8.5	8.4	8.5		8.5	8.5	8.5		8.5	8.5	8.5	8.5	8.5	8.5		8.5	8.5	8.5	8.5	8.5	8.5		8.5	8.5
6	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
7	8.5	8.4	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
8	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
9	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
10	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
11	---	---	---		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
12	8.6	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
13	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
14	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
15	8.5	8.4	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
16	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
17	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
18	8.6	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
19	8.5	8.4	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
20	8.5	8.4	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
21	8.6	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
22	8.6	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
23	8.6	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
24	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
25	8.6	8.4	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
26	8.5	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
27	8.6	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
28	8.6	8.5	8.5		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
29	---	---	---		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
30	---	---	---		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
31	---	---	---		8.6	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5	8.5	8.5	8.5	8.5		8.6	8.5
MONTH	8.6	8.4	8.5		8.6	8.4	8.5		8.6	8.5	8.5	8.2	8.2	8.4		8.7	8.4	7.9	7.9	8.0	8.1		8.7	8.3

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE 08 COUNTY 103

0930A007	PICEANCE CREEK	FLOW RIO BLANCO, CO.	STREAM
LONGITUDE	1081057	DRAINAGE AREA	6366.00
		DATUM	177.00

STATION NUMBER 394934
LATITUDE

PH (STANDARD UNITS). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MTN	MEAN	JUNE			JULY			AUGUST			SEPT			OCT		
				MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
1	8.3	8.0	8.2	8.5	8.2	8.3	8.5	8.2	8.3	8.5	8.2	8.3	8.5	8.2	8.3	8.5	8.2	8.3
2	8.3	8.0	8.2	8.5	8.2	8.3	8.5	8.2	8.3	8.5	8.2	8.3	8.5	8.2	8.3	8.5	8.2	8.3
3	8.2	8.0	8.1	8.5	8.1	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1
4	8.3	8.0	8.1	8.5	8.1	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1
5	8.2	8.0	8.1	8.5	8.1	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1
6	8.3	8.1	8.2	8.5	8.2	8.2	8.5	8.2	8.2	8.5	8.2	8.2	8.5	8.2	8.2	8.5	8.2	8.2
7	8.4	8.0	8.2	8.6	8.2	8.2	8.6	8.2	8.2	8.6	8.2	8.2	8.6	8.2	8.2	8.6	8.2	8.2
8	8.3	7.9	8.1	8.5	8.1	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1
9	8.2	7.9	8.1	8.5	8.1	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1
10	8.2	8.0	8.1	8.5	8.1	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1	8.5	8.2	8.1
11	8.4	8.0	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.5	8.3	8.3
12	8.5	8.3	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4
13	8.6	8.3	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4
14	8.6	8.3	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4
15	8.6	8.3	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.4
16	8.5	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
17	8.5	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
18	8.5	8.2	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
19	8.5	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
20	8.4	8.2	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
21	8.4	8.2	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
22	8.4	8.2	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
23	8.4	8.3	8.4	8.5	8.4	8.4	8.5	8.4	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
24	8.4	8.3	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
25	8.4	8.3	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
26	8.4	8.3	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
27	8.4	8.2	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
28	8.4	8.2	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
29	8.4	8.2	8.4	8.5	8.4	8.4	8.5	8.4	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
30	8.5	8.2	8.3	8.5	8.3	8.3	8.5	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.6	7.9	8.3	8.6	8.2	8.4	8.6	8.2	8.4	8.6	8.2	8.4	8.6	8.2	8.4	8.6	8.2	8.4
YEAR	8.7	7.8	8.3	8.7	8.3	8.4	8.7	8.3	8.4	8.7	8.3	8.4	8.7	8.3	8.4	8.7	8.3	8.4

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306015
LATITUDE 394720

MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, CO.
DRAINAGE AREA 24.00 DATUM 6592.00

SOURCE AGENCY USGS
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
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25												
26												
27												
28												
29												
30												
31												
MONTH												

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OH COUNTY 103

STREFAM
DATUM 6592.00

STEWART GULCH NEAR RTO BLANCO, CO.
DRAINAGE AREA 24.00

09306015 MIDDLE FORK
LONGITUDE 1081023

STATION NUMBER
LATITUDE 394720

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1940 TO SEPTEMBER 1941

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MTN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---									
2	---	---	---									
3	---	---	---									
4	---	---	---									
5	---	---	---									
6	---	---	---									
7	---	---	---									
8	---	---	---									
9	---	---	---									
10	---	---	---									
11	---	---	---									
12	---	---	---									
13	---	---	---									
14	---	---	---									
15	2.0	1.0	1.5									
16	3.0	1.5	2.5									
17	---	---	---									
18	---	---	---									
19	---	---	---									
20	---	---	---									
21	---	---	---									
22	---	---	---									
23	---	---	---									
24	---	---	---									
25	---	---	---									
26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	3.0	1.0	2.0									

PROCFS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OR COUNTY 103

STWFM 6592.00

DATUM 24.00

DRAINAGE AREA

1091023

STATION NUMBER
LATITUDE 394720

09306015 MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, CO.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MAX MIN MFAN
SEPTEMBER

MAX MIN MFAN
AUGUST

MAX MIN MFAN
JULY

MAX MIN MFAN
JUNE

DAY

1
2
3
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28
29
30
31

MONTH

YEAR 3.0 1.0 2.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER
LATITUDE 394720

WATER YEAR OCTOBER 1960 TO SEPTEMBER 1961

NOVEMBER

030959

JANUARY

—

MONTH

PROCESS DATE TS 12-22-A1

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306015
 MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, CO.
 LONGITUDE 1091023 DRAINAGE AREA 24.00 DATUM 6592.00
 SOURCE AGENCY USGS
 STATE OH COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	1900	1430	1620	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1900	1430	1620									

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306015 MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394720 LONGITUDE 1081023 DRAINAGE AREA 24.00 DATUM 6592.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MFAN	MAX	MIN	MEAN	MAX	MIN	MFAN	MAX	MIN	MFAN
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AUGUST

JULY

JUNE

SEPTEMBER

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30
31

MONTH

YEAR 1900 1430 1420

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 394248

SOURCE AGENCY USGS
STATE 08 COUNTY 103

09306022 STEWART GULCH AR WEST FORK, NEAR RIO BLANCO, CO. STRFAM
LONGITUDE 1041100 DRAINAGE AREA 44.00 DATUM 6430.00

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.5	4.5	5.5	8.5	5.0	6.0
2	---	---	---	---	---	---	8.0	5.0	6.0	8.5	5.0	6.5
3	---	---	---	---	---	---	9.0	6.0	7.0	---	---	---
4	---	---	---	---	---	---	9.0	6.0	7.0	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	12.0	7.5	10.0	---	---	---	---	---	---	---	---	---
7	12.5	6.0	9.5	10.5	6.0	7.5	---	---	---	---	---	---
8	12.0	6.0	9.5	9.5	5.5	7.0	---	---	---	---	---	---
9	12.0	6.0	9.5	10.5	5.0	7.0	---	---	---	---	---	---
10	11.5	5.5	8.0	10.5	5.0	7.0	---	---	---	---	---	---
11	12.0	5.5	9.0	10.0	5.0	7.0	8.0	5.0	6.0	---	---	---
12	10.0	6.0	8.0	10.0	6.5	7.5	8.5	4.5	6.0	---	---	---
13	12.0	8.0	9.0	7.0	5.5	6.5	8.5	4.5	5.5	8.0	4.0	5.5
14	10.5	7.0	8.5	7.5	4.0	5.5	8.5	4.5	6.0	8.0	4.0	5.5
15	9.0	6.5	7.5	8.0	3.5	5.0	9.0	5.0	6.5	8.0	5.0	6.0
16	9.0	6.0	7.0	7.5	3.5	5.0	9.5	5.5	6.5	8.0	4.5	6.0
17	8.5	6.5	7.0	8.0	3.0	4.5	9.5	5.0	6.5	8.5	5.0	6.5
18	---	---	---	8.0	3.0	4.5	9.5	5.5	6.5	8.5	4.5	6.0
19	---	---	---	8.5	3.5	5.0	8.5	5.5	6.5	8.5	4.5	6.0
20	---	---	---	8.0	4.0	5.0	9.0	5.0	6.5	9.0	4.5	6.0
21	---	---	---	8.5	3.5	5.0	9.0	5.5	6.5	9.0	4.5	6.0
22	---	---	---	7.5	4.0	6.0	9.0	6.5	7.5	9.0	4.5	6.0
23	---	---	---	8.5	4.5	6.0	8.0	5.0	6.5	9.0	4.5	6.0
24	10.5	4.0	6.0	6.5	5.0	6.0	8.5	5.0	6.5	8.0	5.0	6.5
25	11.0	5.5	7.0	8.0	4.0	5.5	9.0	6.0	7.0	8.5	4.5	6.0
26	10.0	5.5	7.0	7.0	3.5	5.0	9.5	5.5	7.0	8.0	4.5	6.0
27	---	---	---	7.0	3.0	5.0	9.5	6.0	7.0	8.0	5.0	6.0
28	---	---	---	8.5	4.5	6.0	9.0	6.0	7.0	8.0	6.0	6.5
29	---	---	---	8.0	4.5	6.0	9.0	5.0	6.0	9.0	6.0	7.0
30	---	---	---	8.0	5.5	6.5	9.0	5.0	6.0	6.5	5.0	6.0
31	---	---	---	---	---	---	8.5	5.0	6.0	7.0	4.5	5.5
MONTH	12.5	4.0	8.0	10.5	3.0	6.0	9.5	4.5	6.5	9.0	4.0	6.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY						MARCH						APRIL						MAY											
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX		
1	7.0	4.0	5.5	11.0	5.5	7.0	13.5	4.5	7.5	16.0	6.5	10.5	16.0	6.5	10.5	16.0	6.5	10.5	16.0	6.5	10.5	16.0	6.5	10.5	16.0	6.5	10.5	16.0	6.5	10.5
2	8.0	3.5	5.0	10.0	5.5	7.0	15.0	5.0	8.5	15.5	7.5	10.5	15.5	7.5	10.5	15.5	7.5	10.5	15.5	7.5	10.5	15.5	7.5	10.5	15.5	7.5	10.5	15.5	7.5	10.5
3	8.5	3.5	5.5	9.0	5.5	7.0	8.5	2.5	6.0	13.0	6.0	8.0	13.0	6.0	8.0	13.0	6.0	8.0	13.0	6.0	8.0	13.0	6.0	8.0	13.0	6.0	8.0	13.0	6.0	8.0
4	9.0	4.0	5.5	10.5	5.5	7.0	10.5	3.5	6.5	16.5	6.5	9.5	16.5	6.5	9.5	16.5	6.5	9.5	16.5	6.5	9.5	16.5	6.5	9.5	16.5	6.5	9.5	16.5	6.5	9.5
5	9.5	4.0	5.5	11.5	5.0	7.5	13.0	3.0	7.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0
6	7.5	4.5	5.5	7.5	3.5	5.5	14.5	4.5	8.5	15.5	7.5	10.0	15.5	7.5	10.0	15.5	7.5	10.0	15.5	7.5	10.0	15.5	7.5	10.0	15.5	7.5	10.0	15.5	7.5	10.0
7	8.5	4.0	5.5	9.5	5.0	7.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	8.5	4.5	6.0	11.0	4.5	6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	8.0	5.5	6.5	12.5	4.0	7.0	15.0	6.0	10.0	14.5	6.5	9.0	14.5	6.5	9.0	14.5	6.5	9.0	14.5	6.5	9.0	14.5	6.5	9.0	14.5	6.5	9.0	14.5	6.5	9.0
10	7.0	3.0	4.5	12.0	5.0	7.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0	15.0	5.5	9.0
11	---	---	---	9.5	4.5	6.5	15.0	5.5	9.0	13.5	6.0	8.5	13.5	6.0	8.5	13.5	6.0	8.5	13.5	6.0	8.5	13.5	6.0	8.5	13.5	6.0	8.5	13.5	6.0	8.5
12	---	---	---	10.0	5.5	7.0	14.0	5.5	8.5	14.5	6.0	9.0	14.5	6.0	9.0	14.5	6.0	9.0	14.5	6.0	9.0	14.5	6.0	9.0	14.5	6.0	9.0	14.5	6.0	9.0
13	---	---	---	11.0	4.5	7.0	13.5	6.0	9.0	16.0	5.5	9.5	16.0	5.5	9.5	16.0	5.5	9.5	16.0	5.5	9.5	16.0	5.5	9.5	16.0	5.5	9.5	16.0	5.5	9.5
14	---	---	---	12.0	4.5	7.0	14.5	5.0	9.0	16.5	6.0	10.0	16.5	6.0	10.0	16.5	6.0	10.0	16.5	6.0	10.0	16.5	6.0	10.0	16.5	6.0	10.0	16.5	6.0	10.0
15	---	---	---	13.5	4.5	7.5	13.5	7.0	9.0	13.0	6.5	9.5	13.0	6.5	9.5	13.0	6.5	9.5	13.0	6.5	9.5	13.0	6.5	9.5	13.0	6.5	9.5	13.0	6.5	9.5
16	---	---	---	12.0	4.5	7.0	14.0	6.0	9.0	13.0	7.5	9.5	13.0	7.5	9.5	13.0	7.5	9.5	13.0	7.5	9.5	13.0	7.5	9.5	13.0	7.5	9.5	13.0	7.5	9.5
17	---	---	---	9.5	5.0	6.5	15.0	6.0	9.5	11.5	7.5	9.0	11.5	7.5	9.0	11.5	7.5	9.0	11.5	7.5	9.0	11.5	7.5	9.0	11.5	7.5	9.0	11.5	7.5	9.0
18	---	---	---	12.5	4.5	7.0	14.0	6.0	9.0	17.5	7.5	10.5	17.5	7.5	10.5	17.5	7.5	10.5	17.5	7.5	10.5	17.5	7.5	10.5	17.5	7.5	10.5	17.5	7.5	10.5
19	---	---	---	11.5	5.0	7.5	15.0	6.5	9.5	12.5	7.0	9.5	12.5	7.0	9.5	12.5	7.0	9.5	12.5	7.0	9.5	12.5	7.0	9.5	12.5	7.0	9.5	12.5	7.0	9.5
20	---	---	---	10.0	5.5	7.0	14.0	6.0	9.0	11.5	6.5	9.0	11.5	6.5	9.0	11.5	6.5	9.0	11.5	6.5	9.0	11.5	6.5	9.0	11.5	6.5	9.0	11.5	6.5	9.0
21	---	---	---	9.0	4.5	6.5	14.0	5.5	8.5	12.0	6.0	9.0	12.0	6.0	9.0	12.0	6.0	9.0	12.0	6.0	9.0	12.0	6.0	9.0	12.0	6.0	9.0	12.0	6.0	9.0
22	---	---	---	11.0	4.5	7.0	14.0	6.0	9.0	12.0	7.0	9.5	12.0	7.0	9.5	12.0	7.0	9.5	12.0	7.0	9.5	12.0	7.0	9.5	12.0	7.0	9.5	12.0	7.0	9.5
23	---	---	---	12.5	5.0	7.5	16.0	5.5	9.5	14.5	7.5	10.5	14.5	7.5	10.5	14.5	7.5	10.5	14.5	7.5	10.5	14.5	7.5	10.5	14.5	7.5	10.5	14.5	7.5	10.5
24	---	---	---	10.5	5.0	6.5	16.5	6.0	9.5	14.0	6.5	9.0	14.0	6.5	9.0	14.0	6.5	9.0	14.0	6.5	9.0	14.0	6.5	9.0	14.0	6.5	9.0	14.0	6.5	9.0
25	10.5	5.5	7.5	14.0	4.5	8.0	16.5	6.0	10.0	13.5	7.0	9.5	13.5	7.0	9.5	13.5	7.0	9.5	13.5	7.0	9.5	13.5	7.0	9.5	13.5	7.0	9.5	13.5	7.0	9.5
26	9.0	5.5	6.5	13.5	5.5	8.0	15.5	6.0	9.5	14.0	7.5	10.0	14.0	7.5	10.0	14.0	7.5	10.0	14.0	7.5	10.0	14.0	7.5	10.0	14.0	7.5	10.0	14.0	7.5	10.0
27	11.5	5.5	7.5	12.0	4.5	7.5	15.0	5.5	9.0	16.0	8.5	11.0	16.0	8.5	11.0	16.0	8.5	11.0	16.0	8.5	11.0	16.0	8.5	11.0	16.0	8.5	11.0	16.0	8.5	11.0
28	11.0	5.0	7.0	9.0	4.5	6.0	16.0	5.5	9.5	17.0	8.0	10.5	17.0	8.0	10.5	17.0	8.0	10.5	17.0	8.0	10.5	17.0	8.0	10.5	17.0	8.0	10.5	17.0	8.0	10.5
29	---	---	---	14.5	4.5	8.0	16.5	5.5	9.5	16.0	8.0	10.5	16.0	8.0	10.5	16.0	8.0	10.5	16.0	8.0	10.5	16.0	8.0	10.5	16.0	8.0	10.5	16.0	8.0	10.5
30	---	---	---	7.5	3.5	5.5	16.0	5.5	10.0	19.5	7.0	11.0	19.5	7.0	11.0	19.5	7.0	11.0	19.5	7.0	11.0	19.5	7.0	11.0	19.5	7.0	11.0	19.5	7.0	11.0
31	---	---	---	13.0	3.0	6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	11.5	3.0	6.0	14.5	3.0	7.0	16.5	2.5	9.0	18.5	5.5	9.5	18.5	5.5	9.5	18.5	5.5	9.5	18.5	5.5	9.5	18.5	5.5	9.5	18.5	5.5	9.5	18.5	5.5	9.5

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OR COUNTY 103

STATION NUMBER 09306022 STEWART GULCH AR WEST FORK, NEAR RIO BLANCO, CO. STPFAM
LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	7.0	11.5									
2	17.5	7.0	11.0									
3	17.0	8.5	10.5									
4	18.5	7.5	11.5									
5	19.0	7.5	12.0									
6	19.5	7.5	12.0									
7	18.5	8.5	12.5									
8	---	---	---									
9	---	---	---									
10	---	---	---									
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26	---	---	---									
27	---	---	---									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	19.5	7.0	11.5									
YEAR	19.5	2.5	7.5									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39484809306022 STEWART GULCH AR WEST FORK, NEAR RIO BLANCO, CO.
LONGITUDE 1041100 DRAINAGE AREA 44.00 DATUM 6430.00STREAF
STATE OR COUNTY 103

SOURCE AGENCY USGS

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1300	1300	1300	1330	1320	1330
2	---	---	---	---	---	---	1300	1300	1300	1350	1320	1330
3	---	---	---	---	---	---	1300	1300	1300	---	---	---
4	---	---	---	---	---	---	1300	1300	1300	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	1280	1270	1270	---	---	---	---	---	---	---	---	---
7	1280	1270	1280	1300	1290	1300	---	---	---	---	---	---
8	1280	1270	1280	1300	1300	1300	---	---	---	---	---	---
9	1300	1280	1280	1320	1290	1300	---	---	---	---	---	---
10	1290	1280	1280	1300	1290	1300	---	---	---	---	---	---
11	1290	1280	1280	1300	1290	1300	1300	1300	1300	---	---	---
12	1320	1280	1290	1300	1260	1300	1300	1290	1300	---	---	---
13	1300	1280	1290	1300	1290	1300	1310	1300	1300	1330	1320	1330
14	1290	1240	1240	1300	1300	1300	1310	1300	1300	1330	1320	1330
15	1290	1250	1280	1300	1290	1300	1300	1300	1300	1330	1320	1330
16	1290	1280	1280	1300	1290	1300	1300	1300	1300	1330	1320	1330
17	1290	1290	1290	1310	1300	1300	1300	1290	1300	1330	1330	1330
18	---	---	---	1310	1300	1300	1320	1290	1300	1330	1320	1330
19	---	---	---	1310	1300	1300	1300	1290	1300	1330	1320	1330
20	---	---	---	1320	1300	1300	1300	1290	1300	1340	1320	1330
21	---	---	---	1310	1300	1300	1300	1290	1300	1330	1320	1330
22	---	---	---	1310	1300	1300	1300	1290	1300	1330	1320	1330
23	---	---	---	1310	1300	1300	1320	1290	1300	1330	1320	1330
24	1310	1300	1300	1300	1290	1300	1300	1290	1300	1330	1330	1330
25	1310	1290	1300	1300	1300	1300	1300	1300	1300	1330	1320	1330
26	1310	1300	1300	1310	1300	1300	1300	1290	1300	1340	1320	1330
27	---	---	---	1320	1300	1310	1300	1290	1300	1340	1320	1330
28	---	---	---	1310	1300	1300	1300	1290	1300	1330	1320	1330
29	---	---	---	1310	1300	1300	1300	1300	1300	1330	1320	1330
30	---	---	---	1300	1300	1300	1320	1290	1300	1330	1320	1320
31	---	---	---	---	---	---	1330	1300	1310	1330	1320	1320
MONTH	1320	1240	1290	1320	1260	1300	1330	1280	1300	1350	1320	1330

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39484809306022
LONGITUDE 1041100STEWART GULCH AR WEST FORK, NEAR RIO BLANCO, CO.
DRAINAGE AREA

44.00 DATUM 6430.00

STREAM SOURCE AGENCY USGS
STATF 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY					MARCH					APRIL					MAY				
	MAX	MTN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	1330	1320	1330	1330	1320	1320	1330	1320	1320	1320	1300	1310	1320	1350	1340	1350	1340	1350	1340	1350
2	1330	1320	1330	1330	1300	1320	1330	1300	1320	1320	1300	1320	1320	1360	1320	1360	1320	1340	1360	1340
3	1330	1320	1330	1330	1320	1330	1340	1320	1330	1330	1250	1300	1320	1360	1280	1360	1280	1330	1360	1330
4	1330	1320	1330	1330	1320	1320	1330	1320	1320	1320	1300	1310	1320	1350	1340	1350	1340	1340	1350	1340
5	1330	1310	1330	1330	1320	1320	1370	1320	1330	1330	1290	1310	1320	1350	1250	1350	1250	1340	1350	1340
6	1330	1320	1330	1330	1270	1310	1330	1270	1310	1310	1300	1310	1320	1340	1260	1340	1260	1330	1340	1330
7	1330	1320	1330	1320	1310	1320	1320	1310	1320	1320	---	---	---	1350	1340	1350	1340	1340	1350	1340
8	1330	1320	1320	1320	1310	1320	1330	1310	1320	1320	---	---	---	1340	1330	1340	1330	1340	1340	1340
9	1330	1320	1320	1320	1310	1320	1330	1310	1320	1320	1310	1310	1320	1340	1340	1340	1340	1340	1340	1340
10	1330	1310	1320	1320	1310	1320	1330	1310	1320	1320	1310	1310	1320	1340	1340	1340	1340	1340	1340	1340
11	---	---	---	---	1310	1320	1330	1310	1320	1320	1310	1310	1320	1340	1300	1340	1300	1340	1340	1340
12	---	---	---	---	1310	1320	1320	1310	1320	1320	1310	1310	1320	1340	1340	1340	1340	1340	1340	1340
13	---	---	---	---	1300	1320	1320	1300	1320	1320	1300	1310	1320	1340	1340	1340	1340	1340	1340	1340
14	---	---	---	---	1310	1320	1320	1310	1320	1320	1300	1310	1320	1340	1330	1340	1330	1340	1340	1340
15	---	---	---	---	1310	1320	1320	1310	1320	1320	1300	1310	1320	1340	1330	1340	1330	1340	1340	1340
16	---	---	---	---	1320	1320	1320	1320	1320	1320	1300	1310	1320	1340	1330	1340	1330	1340	1340	1340
17	---	---	---	---	1320	1310	1320	1320	1310	1310	1310	1310	1320	1340	1320	1340	1320	1330	1340	1330
18	---	---	---	---	1320	1310	1320	1320	1310	1310	1310	1310	1320	1340	1330	1340	1330	1340	1340	1340
19	---	---	---	---	1320	1320	1320	1320	1310	1320	1310	1310	1320	1340	1330	1340	1330	1340	1340	1340
20	---	---	---	---	1320	1320	1320	1320	1300	1320	1310	1310	1320	1340	1330	1340	1330	1340	1340	1340
21	---	---	---	---	1320	1310	1320	1320	1300	1320	1300	1310	1320	1340	1330	1340	1330	1340	1340	1340
22	---	---	---	---	1320	1310	1320	1320	1310	1310	1310	1310	1320	1340	1330	1340	1330	1340	1340	1340
23	---	---	---	---	1320	1310	1320	1320	1310	1310	1310	1310	1320	1340	1330	1340	1330	1340	1340	1340
24	---	---	---	---	1320	1280	1320	1320	1280	1310	1310	1310	1320	1340	1310	1340	1310	1340	1340	1340
25	1330	1320	1320	1320	1300	1310	1320	1300	1310	1310	1300	1310	1320	1340	1320	1340	1320	1340	1340	1340
26	1330	1310	1320	1320	1300	1310	1320	1300	1310	1310	1310	1310	1320	1340	1320	1340	1320	1340	1340	1340
27	1330	1310	1320	1320	1280	1310	1320	1280	1310	1310	1300	1310	1320	1340	1320	1340	1320	1340	1340	1340
28	1330	1310	1320	1320	1290	1310	1320	1290	1310	1310	1300	1310	1320	1340	1300	1340	1300	1340	1340	1340
29	---	---	---	---	1340	1310	1320	1310	1310	1310	1300	1310	1320	1340	1310	1340	1310	1340	1340	1340
30	---	---	---	---	1320	1270	1320	1270	1310	1310	1300	1310	1320	1340	1320	1340	1320	1340	1340	1340
31	---	---	---	---	1340	1290	1340	1290	1310	1310	---	---	---	1330	1300	1330	1300	1340	1330	1320
MONTH	1330	1310	1330	1330	1270	1320	1370	1270	1320	1320	1250	1310	1350	1340	1250	1340	1250	1330	1340	1330

SOURCE AGENCY USGS
STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 394R4809306022 STEWART GULCH AR WEST FORK, NEAR RIO BLANCO, CO.
LONGITUDE 1041100 DRAINAGE AREA44.00 DATUM 6430.00 STREAM
STATE OR COUNTY 103

SOURCE AGENCY USGS

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER					NOVEMBER					DECEMBER					JANUARY				
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	8.9	8.0	8.3	9.2	8.6	8.8	9.2	8.6	8.8	9.2	8.6
2	---	---	---	---	---	---	---	---	---	9.0	9.0	8.3	9.1	8.4	8.7	9.1	8.4	8.7	9.1	8.4
3	---	---	---	---	---	---	---	---	---	8.8	8.0	8.2	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	8.9	7.8	8.2	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6	9.8	7.8	8.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	9.6	7.7	8.5	---	8.6	9.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	9.4	7.6	8.4	10.1	8.5	9.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	9.4	7.6	8.4	10.0	8.4	9.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	9.5	7.6	8.4	9.8	8.3	8.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11	9.4	7.5	8.3	9.9	8.2	8.9	9.3	8.8	9.0	9.3	8.8	9.0	---	---	---	---	---	---	---	---
12	9.2	7.1	8.0	9.6	8.1	8.6	9.7	8.8	9.1	9.1	8.8	9.1	---	---	---	---	---	---	---	---
13	9.1	7.5	8.0	9.4	8.1	8.7	9.7	9.0	9.3	9.3	9.0	9.3	---	---	---	---	---	---	---	---
14	9.1	7.2	7.9	9.8	8.6	9.0	9.8	8.9	9.3	9.3	8.9	9.3	---	---	---	---	---	---	---	---
15	9.2	7.3	8.2	9.8	8.7	9.1	9.8	8.9	9.3	9.3	8.9	9.3	---	---	---	---	---	---	---	---
16	9.5	7.8	8.3	9.9	8.6	9.1	10.4	9.3	9.6	9.6	9.3	9.6	---	---	---	---	---	---	---	---
17	9.2	7.9	8.4	9.8	8.7	9.1	10.0	9.2	9.5	9.5	9.2	9.5	---	---	---	---	---	---	---	---
18	---	---	---	9.7	8.6	9.0	9.9	9.1	9.4	9.4	9.1	9.4	---	---	---	---	---	---	---	---
19	---	---	---	9.6	8.5	8.9	9.9	9.1	9.5	9.5	9.1	9.5	---	---	---	---	---	---	---	---
20	---	---	---	9.5	8.5	8.8	9.9	9.1	9.5	9.5	9.1	9.5	---	---	---	---	---	---	---	---
21	---	---	---	9.5	8.4	8.8	9.8	9.2	9.4	9.4	9.2	9.4	---	---	---	---	---	---	---	---
22	---	---	---	9.2	8.1	8.6	9.8	9.1	9.3	9.3	9.1	9.3	---	---	---	---	---	---	---	---
23	---	---	---	9.3	8.1	8.5	9.8	9.2	9.4	9.4	9.2	9.4	---	---	---	---	---	---	---	---
24	9.2	7.9	8.3	9.0	8.1	8.5	9.9	9.2	9.5	9.5	9.2	9.5	---	---	---	---	---	---	---	---
25	10.0	8.3	8.9	9.5	8.4	8.7	9.7	9.1	9.3	9.3	9.1	9.3	---	---	---	---	---	---	---	---
26	9.9	8.3	8.9	9.4	8.4	8.8	9.7	9.2	9.4	9.4	9.2	9.4	---	---	---	---	---	---	---	---
27	---	---	---	9.3	8.2	8.7	9.7	9.1	9.4	9.4	9.1	9.4	---	---	---	---	---	---	---	---
28	---	---	---	9.1	8.1	8.5	9.7	9.2	9.4	9.4	9.2	9.4	10.8	10.1	10.3	10.8	10.1	10.3	10.8	10.1
29	---	---	---	9.1	8.0	8.4	9.8	9.3	9.5	9.5	9.3	9.5	10.6	10.0	10.2	10.6	10.0	10.2	10.6	10.0
30	---	---	---	8.8	7.8	8.2	9.7	9.2	9.4	9.4	9.2	9.4	10.6	10.0	10.2	10.6	10.0	10.2	10.6	10.0
31	---	---	---	---	---	---	9.7	8.6	9.1	9.1	8.6	9.1	10.6	10.0	10.2	10.6	10.0	10.2	10.6	10.0
MONTH	10.0	7.1	8.4	10.1	7.8	8.8	10.4	7.8	9.2	9.2	7.8	9.2	10.8	8.4	9.7	10.8	8.4	9.7	10.8	8.4

09705022 STEWART GULCH AR WEST FORK, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 STATE OH COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY						APRIL						MAY	
	MAX	MTN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	
1	10.7	10.0	10.3	9.8	8.8	9.4	10.6	9.0	9.5	9.7	8.5	9.1	8.5	
2	10.9	10.0	10.4	9.8	9.2	9.5	10.3	8.6	9.5	9.4	8.5	9.1	8.5	
3	10.6	9.8	10.2	9.9	9.0	9.5	11.0	8.8	9.6	9.5	8.7	9.1	8.9	
4	10.4	9.8	10.1	9.8	8.7	9.3	11.0	9.2	9.9	9.7	8.3	9.0	8.3	
5	10.5	9.7	10.0	9.9	8.8	9.4	10.5	9.1	9.7	9.6	8.3	9.0	8.3	
6	10.2	9.6	9.9	9.9	9.3	9.6	10.0	8.8	9.3	9.2	8.2	8.7	8.2	
7	10.3	9.6	9.9	9.6	9.2	9.4	---	---	---	9.5	8.3	8.9	8.3	
8	10.1	9.4	9.7	9.8	8.9	9.5	---	---	---	9.3	8.5	9.1	8.5	
9	10.2	9.3	9.6	9.8	8.7	9.4	9.3	8.6	8.9	9.4	8.3	8.9	8.3	
10	10.8	9.6	10.2	9.7	8.8	9.3	9.5	8.5	9.0	9.5	8.0	8.9	8.0	
11	---	---	---	9.6	9.0	9.4	9.5	8.5	9.0	9.3	8.2	8.9	8.2	
12	---	---	---	9.5	9.0	9.2	9.5	8.7	9.0	9.3	8.3	8.9	8.3	
13	---	---	---	9.7	8.9	9.3	9.3	8.6	8.9	9.5	8.1	8.9	8.1	
14	---	---	---	9.7	8.9	9.2	9.5	8.3	8.8	9.4	7.9	8.8	7.9	
15	---	---	---	9.8	8.9	9.3	9.2	8.4	8.8	9.2	8.3	8.7	8.3	
16	---	---	---	9.9	8.8	9.4	9.3	8.4	8.8	9.0	8.3	8.7	8.3	
17	---	---	---	10.2	9.0	9.4	9.2	8.2	8.6	9.1	8.6	8.8	8.6	
18	---	---	---	10.1	9.1	9.4	9.1	8.1	8.5	9.1	7.9	8.6	7.9	
19	---	---	---	10.0	8.7	9.3	8.9	8.1	8.4	10.7	8.9	8.9	8.9	
20	---	---	---	10.0	8.8	9.2	8.9	8.2	8.5	9.9	9.3	9.6	9.3	
21	---	---	---	10.5	8.8	9.5	9.0	7.9	8.5	10.1	9.3	9.7	9.3	
22	---	---	---	10.6	9.0	9.6	8.9	8.0	8.4	9.8	9.2	9.5	9.2	
23	---	---	---	10.6	8.9	9.5	9.6	8.6	9.0	9.7	8.9	9.4	8.9	
24	---	---	---	10.9	8.8	9.5	9.9	8.7	9.3	9.9	8.9	9.4	8.9	
25	9.3	8.7	8.9	10.5	8.7	9.5	9.8	8.7	9.3	9.8	9.0	9.3	9.0	
26	9.3	8.9	9.9	10.2	8.4	9.1	9.8	8.7	9.3	9.6	8.9	9.3	8.9	
27	9.6	8.8	9.1	10.3	8.5	9.3	9.9	9.0	9.4	9.6	8.7	9.2	8.7	
28	9.8	8.9	9.3	10.3	8.7	9.4	10.0	8.7	9.4	9.8	8.5	9.2	8.5	
29	---	---	---	10.1	8.6	9.2	9.9	8.6	9.3	9.7	8.7	9.2	8.7	
30	---	---	---	10.3	8.7	9.4	9.8	8.0	9.2	9.7	8.6	9.1	8.6	
31	---	---	---	10.2	8.8	9.5	---	---	---	9.6	8.6	9.0	8.6	
MONTH	10.9	8.7	9.8	10.9	8.4	9.4	11.0	7.9	9.1	10.7	7.9	9.1	10.7	

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE 08 COUNTY 103

STREAM
DATUM 6430.00

09306022 STEWART GULCH AR WEST FORK, NEAR RIO BLANCO, CO.
DRAINAGE AREA 44.00

STATION NUMBER
LATITUDE 394848

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	SEPTEMBER	
													AUGUST	SEPTEMBER
1	9.5	8.3	8.9	9.6	8.0	8.6								
2	9.4	8.2	8.8	9.2	7.9	8.3								
3	9.3	8.5	8.9	8.8	7.8	8.2								
4	9.6	8.5	9.0	8.7	7.4	8.0								
5	9.7	8.4	9.1	8.5	7.3	7.9								
6	9.7	8.5	9.1	8.3	7.2	7.7								
7	9.7	8.7	9.1	8.2	7.1	7.6								
8	9.8	8.7	9.2	8.2	7.2	7.6								
9	9.2	8.3	8.8	8.2	7.3	7.7								
10	9.6	8.2	8.9	8.2	7.4	7.7								
11	9.7	8.5	9.0	8.2	7.5	7.8								
12	9.7	8.7	9.1	8.2	7.5	7.9								
13	10.0	8.8	9.3	8.4	7.6	8.0								
14	10.7	9.2	9.8	8.7	7.6	8.2								
15	10.6	9.0	9.8	8.6	7.7	8.1								
16	10.3	8.7	9.6	8.5	7.5	8.0								
17	10.5	8.6	9.6	8.5	7.8	8.1								
18	10.9	8.5	9.7	8.8	7.9	8.3								
19	10.6	8.4	9.5	9.0	8.3	8.5								
20	10.7	8.3	9.4	9.3	8.5	8.8								
21	11.1	8.2	9.6	9.5	8.7	9.1								
22	11.0	8.3	9.5	9.7	9.0	9.3								
23	11.1	8.3	9.5	10.0	8.7	9.5								
24	10.2	8.6	9.3	9.9	8.9	9.4								
25	10.1	8.7	9.4	9.9	8.7	9.3								
26	10.3	8.3	9.4	9.8	8.9	9.3								
27	10.3	8.4	9.1	10.0	8.9	9.4								
28	10.4	8.2	9.0	9.9	8.8	9.3								
29	10.5	8.1	9.1	9.8	8.7	9.2								
30	9.7	8.0	8.8	9.4	8.0	8.9								
31	---	---	---	---	---	---								
MONTH	11.1	8.0	9.2	10.0	7.1	8.5								
YEAR	11.1	7.1	9.1											

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

SOURCE AGENCY USGS
STATF 04 COUNTY 103

STREAFM
6430.00

DATUM
44.00

DRAINAGE AREA
1081100

LONGITUDE
1081100

LATITUDE
394848

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER					NOVEMBER					DECEMBER					JANUARY				
	MAX	MIN	MFAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	8.2	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3
2	---	---	---	---	---	---	---	---	---	---	8.1	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3
3	---	---	---	---	---	---	---	---	---	---	8.1	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3
4	---	---	---	---	---	---	---	---	---	---	8.2	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3
5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6	8.3	8.2	8.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	8.3	8.2	8.2	8.3	8.1	8.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8	8.3	8.2	8.2	8.2	8.1	8.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	8.3	8.2	8.2	8.2	8.1	8.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10	8.3	8.2	8.2	8.2	8.1	8.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11	8.3	8.2	8.2	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.1	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
12	8.2	8.1	8.1	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3
13	8.3	8.1	8.2	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
14	8.2	8.1	8.1	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
15	8.2	8.1	8.2	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
16	8.2	8.1	8.2	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
17	8.2	8.1	8.1	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
18	---	---	---	8.2	8.1	8.1	8.4	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
19	---	---	---	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
20	---	.0	---	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
21	---	---	---	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
22	---	---	---	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
23	---	---	---	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
24	8.4	8.3	8.3	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
25	8.3	8.2	8.3	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
26	8.3	8.2	8.2	8.2	8.1	8.1	8.3	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
27	---	---	---	8.1	8.1	8.1	8.2	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
28	---	---	---	8.1	8.1	8.1	8.2	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
29	---	---	---	8.1	8.1	8.1	8.2	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
30	---	---	---	8.1	8.1	8.1	8.2	8.2	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4
31	---	---	---	---	---	---	8.4	8.1	8.2	8.2	8.1	8.1	8.2	8.2	8.2	8.4	8.3	8.4	8.4	8.4
MONTH	8.4	.0	8.2	8.3	8.1	8.1	8.4	8.1	8.2	8.2	8.4	8.1	8.2	8.2	8.2	8.4	8.3	8.4	8.4	8.4

09306022 STEWART GULCH AR WEST FORK, N
LONGITUDE 1081100 DRAINAGE AREA

PH (STANDARD UNITS). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY					MARCH					APRIL					MAY				
	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN		
1	8.4	8.3	8.4	8.2	8.2	8.2	8.2	8.2	8.4	8.2	8.4	8.2	8.3	8.5	8.2	8.3	8.3	8.2		
2	8.4	8.4	8.4	8.4	8.2	8.4	8.3	8.3	8.4	8.3	8.4	8.3	8.3	8.5	8.2	8.3	8.3	8.2		
3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.5	8.2	8.3	8.3	8.2		
4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.5	8.2	8.3	8.3	8.2		
5	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
6	8.4	8.4	8.4	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.4	8.2	8.3	8.3	8.2		
7	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.4	8.1	8.3	8.3	8.2		
8	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.4	8.3	8.3	8.3	8.3		
9	8.4	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.4	8.4	8.2	8.3	8.3	8.2		
10	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
11	---	---	---	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
12	---	---	---	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
13	---	---	---	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
14	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
15	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.3	8.3	8.4	8.2	8.3	8.3	8.2		
16	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
17	---	---	---	8.4	8.4	8.4	8.3	8.4	8.4	8.4	8.4	8.3	8.3	8.4	8.2	8.3	8.3	8.2		
18	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.1	8.3	8.3	8.2		
19	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
20	---	---	---	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.3	8.3	8.3	8.2		
21	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.3	8.3	8.3	8.2		
22	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.3	8.3	8.4	8.2	8.3	8.3	8.2		
23	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
24	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
25	8.3	8.1	8.1	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
26	8.3	8.1	8.2	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
27	8.2	8.1	8.1	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
28	8.2	8.2	8.2	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
29	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
30	---	---	---	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.2	8.3	8.4	8.2	8.3	8.3	8.2		
31	---	---	---	8.4	8.2	8.4	8.2	8.4	8.4	8.4	8.4	---	---	8.4	8.2	8.3	8.3	8.2		
MONTH	8.4	8.1	8.3	8.5	8.2	8.5	8.2	8.4	8.5	8.2	8.5	8.2	8.3	8.5	8.1	8.3	8.3	8.3		

STATION NUMBER
LATITUDE 39484809306022
LONGITUDE 1091100STEWART GULCH AR WEST FORK, NEAR RIO HLANCO, CO.
DRAINAGE AREA 44.00SOURCE AGENCY USGS
STATE OR COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
												SEPTEMBER
1	9.4	8.2	8.3	8.6	8.3	8.4						
2	8.3	8.1	8.2	8.6	8.3	8.4						
3	8.3	8.1	8.2	8.6	8.3	8.4						
4	8.3	8.1	8.2	8.6	8.2	8.4						
5	8.3	8.1	8.2	8.5	8.3	8.4						
6	8.3	8.1	8.1	8.6	8.3	8.4						
7	8.2	8.1	8.1	8.6	8.3	8.4						
8	8.3	8.1	8.2	8.6	8.1	8.3						
9	8.5	8.1	8.2	8.6	8.2	8.4						
10	8.5	8.2	8.3	8.5	8.3	8.4						
11	8.6	8.2	8.3	8.6	8.2	8.4						
12	8.5	8.3	8.3	---	---	---						
13	8.5	8.2	8.3	8.5	8.3	8.5						
14	8.5	8.2	8.4	8.6	8.2	8.4						
15	8.5	8.3	8.3	8.6	8.2	8.3						
16	8.5	8.3	8.4	8.5	8.2	8.4						
17	8.5	8.3	8.4	8.5	8.4	8.5						
18	8.5	8.2	8.4	8.6	8.4	8.5						
19	8.6	8.2	8.4	8.6	8.3	8.4						
20	8.6	8.2	8.4	8.6	8.2	8.4						
21	8.6	8.2	8.4	8.6	8.3	8.4						
22	8.6	8.2	8.4	8.6	8.3	8.5						
23	8.6	8.2	8.4	---	---	---						
24	8.6	8.2	8.4	---	---	---						
25	8.6	8.1	8.4	---	---	---						
26	8.6	8.3	8.4	---	---	---						
27	8.6	8.2	8.4	---	---	---						
28	8.6	8.3	8.4	8.6	8.5	8.5						
29	8.7	8.0	8.4	8.6	8.4	8.5						
30	8.6	8.3	8.4	8.5	8.4	8.4						
31	---	---	---	---	---	---						
MONTH	8.7	8.0	8.3	8.6	8.1	8.4						
YEAR	8.7	.0	8.3									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

I-317

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE 08 COUNTY 103

SIRFAM
6669.00

DATUM
14.20

DRAINAGE AREA

1081121

STATION NUMBER
394701

LONGITUDE

TEMPERATURE. WATER (DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN

1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

MONTH

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OR COUNTY 103

STREAM
6668.00 DATUM

09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, CO.
DRAINAGE AREA 14.20

STATION NUMBER
LATITUDE 394701
LONGITUDE 1081121

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	16.5	16.0	16.0	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	16.5	16.0	16.0									
YEAR	16.5	16.0	16.0									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS

PROCESS DATE IS 12-22-81

LONGITUDE 1081121 DRAINAGE AREA 14.20 DATUM 666P.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
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20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OR COUNTY 103

STREAM
666A.00 DATUM

14.20
DRAINAGE AREA

09306025 WEST FORK STEWART GULCH NEAR RIO BLANCO, CO.
1081121

STATION NUMBER
394701
LATITUDE

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
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23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

PROCESS DATE IS 12-22-81

09306025	WEST FORK STFWART GULCH	NEAR RIO BLANCO, CO.	STREAM	SOURCE	AGENCY	USGS
LONGITUDE	1081121	DRAINAGE AREA	14.20	DATUM	6669.00	STATE 08
						COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39500109306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO.
LONGITUDE 1081312 DRAINAGE AREA

1.06 DATUM 6335.00

STREAM
SOURCE AGENCY USGS
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C). WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MTN	MFAN	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
				MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN	
1	21.0	11.0	14.5	---	---	---		---	---	---		11.5	8.5	9.5		14.0	9.0	11.0	
2	20.0	10.0	13.5	---	---	---		---	---	---		12.5	9.0	10.5		14.0	10.0	11.5	
3	20.0	9.5	12.5	---	---	---		---	---	---		12.5	10.5	11.0		14.0	10.0	11.5	
4	21.0	10.0	14.0	18.0	13.0	15.5		18.0	13.0	15.5		12.0	10.5	11.0		14.0	10.5	12.0	
5	20.5	10.5	14.0	18.5	12.0	14.0		18.5	12.0	14.0		13.0	10.0	11.0		12.0	9.5	11.0	
6	20.5	11.0	14.5	17.0	12.5	14.0		17.0	12.5	14.0		13.5	10.0	11.0		12.5	8.0	9.5	
7	20.5	11.5	14.5	---	---	---		---	---	---		12.0	10.0	11.0		12.5	7.5	9.0	
8	21.0	10.5	14.0	---	---	---		---	---	---		12.0	7.5	10.0		12.5	7.5	9.0	
9	20.5	11.5	14.5	---	---	---		---	---	---		10.5	6.0	9.0		13.0	7.5	9.5	
10	---	---	---	---	---	---		---	---	---		11.0	6.5	8.0		13.0	8.0	9.5	
11	---	---	---	16.5	11.0	13.5		16.5	11.0	13.5		12.5	7.5	9.0		12.5	7.0	9.0	
12	---	---	---	14.0	13.5	14.5		14.0	13.5	14.5		12.0	7.5	9.0		13.0	7.0	9.0	
13	---	---	---	14.0	11.5	12.5		14.0	11.5	12.5		11.5	7.5	8.5		12.5	7.0	9.0	
14	---	---	---	12.5	10.0	11.0		12.5	10.0	11.0		12.5	7.5	9.5		13.0	7.5	9.0	
15	---	---	---	13.0	8.5	10.0		13.0	8.5	10.0		13.5	8.5	10.5		13.0	8.5	10.0	
16	---	---	---	11.5	8.0	9.5		11.5	8.0	9.5		14.5	9.5	11.0		12.0	7.5	9.5	
17	---	---	---	12.0	7.0	8.5		12.0	7.0	8.5		15.0	10.0	11.5		13.0	9.5	10.5	
18	---	---	---	12.5	7.5	9.0		12.5	7.5	9.0		14.5	10.0	11.5		13.0	8.5	10.5	
19	---	---	---	13.0	7.5	9.5		13.0	7.5	9.5		13.5	9.5	11.0		13.5	8.5	10.0	
20	---	---	---	13.0	7.5	10.0		13.0	7.5	10.0		14.0	9.0	11.0		13.5	8.5	10.0	
21	---	---	---	13.0	8.0	10.0		13.0	8.0	10.0		14.0	10.0	11.5		13.5	7.0	9.5	
22	---	---	---	12.5	9.0	11.0		12.5	9.0	11.0		13.0	10.5	11.5		13.5	7.5	10.0	
23	15.5	9.5	11.5	13.5	9.5	11.5		13.5	9.5	11.5		13.0	9.0	11.0		14.5	8.0	10.5	
24	---	---	---	12.0	9.5	11.0		12.0	9.5	11.0		12.5	9.0	10.5		12.5	9.0	10.5	
25	---	---	---	12.0	7.0	9.5		12.0	7.0	9.5		13.5	10.0	11.5		12.5	7.5	9.5	
26	---	---	---	12.0	7.5	9.5		12.0	7.5	9.5		14.0	9.5	11.5		11.5	7.0	9.0	
27	---	---	---	12.0	6.0	9.0		12.0	6.0	9.0		14.5	10.5	12.0		11.5	8.5	10.0	
28	---	---	---	13.5	9.0	11.0		13.5	9.0	11.0		14.5	10.5	12.5		12.5	10.0	10.0	
29	---	---	---	13.5	9.0	11.0		13.5	9.0	11.0		13.5	9.0	10.5		13.0	10.0	10.5	
30	---	---	---	12.0	10.0	10.5		12.0	10.0	10.5		14.0	9.0	11.0		10.5	7.5	9.5	
31	---	---	---	---	---	---		---	---	---		14.0	9.0	11.0		10.0	7.0	8.5	
MONTH	21.0	9.5	14.0	18.5	6.0	11.0		18.5	6.0	11.0		15.0	6.0	10.5		14.5	7.0	10.0	

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
 LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE OH COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	5.5	8.0	15.0	10.0	11.5	19.0	9.0	13.5	25.5	14.0	18.0
2	12.0	4.5	7.5	15.0	9.5	11.0	19.0	9.0	12.5	22.5	16.0	18.0
3	12.5	6.0	8.5	14.0	9.0	11.0	13.0	5.5	10.5	14.5	10.0	14.5
4	13.0	7.0	9.0	15.0	7.5	10.5	14.5	6.5	10.0	23.0	12.5	16.5
5	13.0	6.0	8.5	16.5	7.5	11.5	19.5	5.5	11.0	23.0	13.0	16.5
6	12.0	5.0	9.5	12.0	5.0	9.5	20.0	9.0	13.0	21.5	12.5	16.0
7	11.5	4.0	7.0	14.0	8.5	10.5	15.0	10.5	12.5	20.0	11.0	14.5
8	11.5	5.0	8.5	16.0	8.0	11.0	16.0	10.0	12.5	14.0	10.5	13.0
9	12.0	7.5	10.0	17.5	7.0	11.0	21.5	9.5	13.5	20.5	12.0	14.5
10	9.0	2.0	6.0	17.0	8.0	11.0	21.5	10.0	14.0	22.5	12.0	15.5
11	9.5	2.0	6.5	13.5	9.0	11.5	21.5	10.0	14.0	21.0	12.0	14.5
12	14.0	7.5	10.0	15.5	8.0	11.0	20.0	10.0	14.0	21.5	12.0	14.0
13	15.0	8.0	10.5	16.0	8.0	11.0	20.0	11.0	14.5	22.0	9.5	15.0
14	14.0	10.0	11.5	16.0	8.0	11.0	20.5	9.5	14.0	23.0	13.0	16.5
15	15.5	10.0	12.5	19.0	8.0	12.0	20.5	12.0	15.0	19.0	14.0	16.0
16	14.5	10.5	12.5	16.5	7.5	11.5	21.5	11.0	14.5	19.5	13.0	15.5
17	15.5	11.0	12.5	14.5	8.5	10.5	22.0	11.5	15.5	17.5	13.5	15.0
18	15.0	8.0	11.0	17.0	7.5	11.0	21.0	11.0	15.5	23.0	14.0	17.0
19	15.5	8.5	11.5	17.0	8.5	12.0	22.0	12.0	15.5	19.0	14.5	16.0
20	12.0	7.5	10.5	13.5	8.5	11.0	20.0	10.5	14.0	18.0	11.5	14.5
21	13.0	8.0	10.0	13.5	8.0	10.5	19.5	10.0	13.5	16.0	11.5	13.5
22	15.0	8.0	10.5	16.5	9.5	12.0	21.0	11.0	14.5	17.5	11.5	14.0
23	16.5	9.0	11.0	18.0	9.5	12.5	23.5	10.0	15.5	20.5	13.0	14.0
24	16.0	8.0	11.5	15.0	9.0	11.0	24.0	11.0	16.0	22.0	13.5	16.5
25	14.5	7.0	9.5	19.0	10.0	13.0	23.5	13.0	17.0	20.5	12.5	16.5
26	13.0	8.0	9.5	18.5	8.5	12.5	22.5	11.5	16.0	21.0	14.5	17.0
27	16.5	9.0	11.0	14.5	9.0	11.0	22.5	11.5	15.5	21.5	15.0	17.5
28	16.0	8.5	11.5	12.0	8.0	10.0	24.0	11.0	16.0	24.0	14.5	18.0
29	---	---	---	18.5	9.0	12.5	24.5	11.0	16.5	24.5	14.0	17.5
30	---	---	---	11.5	6.5	9.0	24.5	12.0	17.0	27.0	12.5	18.0
31	---	---	---	17.5	5.5	10.5	---	---	---	24.0	15.0	19.0
MONTH	16.5	2.0	10.0	19.0	5.0	11.0	24.5	5.5	14.0	27.0	9.5	16.0

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39500109306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO.
LONGITUDE 1041312 DRAINAGE AREASTRFAM SOURCE AGENCY USGS
1.06 DATUM 6335.00 STATE 09 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
												SEPTEMBER
												AUGUST
1	26.0	13.0	19.0	21.5	19.0	20.0	28.0	15.5	20.5	28.0	15.5	20.5
2	27.0	12.5	18.0	27.5	17.5	20.5	28.5	12.5	20.0	28.5	12.5	20.0
3	22.0	14.5	17.0	32.0	12.5	19.0	30.0	11.0	14.5	30.0	11.0	14.5
4	27.0	14.0	18.5	30.0	16.0	21.0	31.0	14.0	20.5	31.0	14.0	20.5
5	24.0	13.0	19.0	28.0	17.0	21.5	29.5	9.5	14.0	29.5	9.5	14.0
6	28.5	14.0	20.0	29.5	15.5	21.0	26.0	9.0	15.0	26.0	9.0	15.0
7	25.5	16.0	20.0	31.5	14.5	21.5	---	---	---	---	---	---
8	26.0	15.5	19.5	30.0	13.0	20.5	---	---	---	---	---	---
9	27.0	15.0	19.5	30.5	15.5	20.5	---	---	---	---	---	---
10	28.5	12.5	19.5	30.5	15.5	20.5	---	---	---	---	---	---
11	13.5	12.0	12.5	32.0	15.0	22.0	---	---	---	---	---	---
12	17.5	13.0	---	27.0	15.5	20.5	---	---	---	---	---	---
13	24.0	13.0	---	24.5	19.5	21.0	---	---	---	---	---	---
14	11.0	4.5	---	32.0	16.5	23.0	---	---	---	---	---	---
15	25.5	3.0	---	30.0	15.5	21.0	---	---	---	---	---	---
16	26.0	4.5	15.5	21.5	14.0	18.5	---	---	---	---	---	---
17	25.5	13.5	17.5	22.0	15.0	18.0	---	---	---	---	---	---
18	25.5	11.0	17.0	27.5	15.0	19.5	---	---	---	---	---	---
19	28.0	10.5	18.5	26.5	13.0	19.5	---	---	---	---	---	---
20	26.0	12.0	18.5	28.0	9.5	17.5	---	---	---	---	---	---
21	27.5	13.5	19.0	27.5	12.0	19.0	---	---	---	---	---	---
22	29.0	13.0	19.5	28.5	13.0	20.0	---	---	---	---	---	---
23	27.0	14.5	19.0	33.5	10.5	20.0	---	---	---	---	---	---
24	29.0	14.0	19.5	32.0	13.5	19.5	---	---	---	---	---	---
25	29.0	14.0	19.5	27.5	14.5	20.0	---	---	---	---	---	---
26	---	---	---	29.0	15.0	20.0	---	---	---	---	---	---
27	26.0	15.5	20.0	31.5	12.0	19.5	---	---	---	---	---	---
28	25.5	17.5	20.5	30.0	10.0	19.5	---	---	---	---	---	---
29	29.0	16.0	21.0	26.0	9.5	17.5	---	---	---	---	---	---
30	28.5	17.5	22.0	30.0	13.0	20.0	---	---	---	---	---	---
31	---	---	---	32.0	13.5	21.0	---	---	---	---	---	---
MONTH	29.0	3.0	19.0	33.5	9.5	20.0	31.0	9.0	19.0	31.0	9.0	19.0
YEAR	33.5	2.0	13.5									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39500109306042
LONGITUDE 1081312PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO.
DRAINAGE AREASTREAM
6335.00
STATE OF COLORADO

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) WATER YEAR OCTOBER 1940 TO SEPTEMBER 1981

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	2280	2120	2190	---	---	---	2070	2020	2040	2040	2040	2100	2030	2060	2040	2030
2	2400	2010	2200	---	---	---	---	---	2060	2040	2040	2040	2020	2030	2040	2020
3	2240	2030	2140	---	---	---	---	---	2070	2020	2060	2070	2030	2050	2070	2030
4	2260	2040	2190	2180	2110	2150	2040	2020	2040	2030	2030	2090	2060	2070	2090	2060
5	2240	2140	2140	2140	2040	2100	2060	2020	2060	2040	2040	2120	2030	2070	2120	2030
6	2250	2150	2200	2110	2020	2070	2080	2010	2050	2050	2050	2150	2090	2120	2150	2090
7	2290	2130	2170	---	---	---	2080	2040	2080	2080	2080	2140	1970	2060	2140	1970
8	2280	2120	2230	---	---	---	2070	2030	2070	2070	2070	2080	2000	2050	2080	2000
9	---	---	---	---	---	---	2050	2010	2050	2040	2040	2130	2040	2070	2130	2040
10	---	---	---	---	---	---	2130	2060	2060	2040	2040	2140	2060	2090	2140	2060
11	---	---	---	2140	2090	2120	2090	2000	2060	2060	2060	2090	2060	2070	2090	2060
12	---	---	---	2120	2030	2090	2080	1940	2040	2040	2040	---	---	---	---	---
13	---	---	---	2180	2010	2140	2100	2020	2060	2060	2060	2160	2000	2090	2160	2000
14	---	---	---	2180	2160	2180	2110	1990	2070	2070	2070	2130	2030	2100	2130	2030
15	---	---	---	2190	2150	2180	2180	2050	2100	2100	2100	2110	2040	2070	2110	2040
16	---	---	---	2180	2130	2150	2150	2020	2140	2100	2100	2110	2040	2090	2110	2040
17	---	---	---	2130	2110	2120	2200	2020	2200	2040	2040	2110	2060	2090	2110	2060
18	---	---	---	2140	2110	2130	2140	2040	2140	2090	2090	2170	2060	2100	2170	2060
19	---	---	---	2130	2100	2110	2150	2110	2150	2130	2130	2210	2020	2160	2210	2020
20	---	---	---	2100	2090	2090	2180	2080	2180	2140	2140	2150	2020	2120	2150	2020
21	---	---	---	2090	2060	2080	2090	2050	2090	2080	2080	2160	2030	2120	2160	2030
22	---	---	---	2110	2080	2100	2090	2070	2090	2080	2080	2130	2050	2100	2130	2050
23	2150	2060	2110	2120	2100	2120	2090	1990	2090	2050	2050	2220	2070	2130	2220	2070
24	---	---	---	2120	2090	2110	2140	2010	2140	2090	2090	2250	2100	2190	2250	2100
25	---	---	---	2120	2100	2110	2150	2000	2150	2090	2090	2140	2080	2120	2140	2080
26	---	---	---	2120	2100	2100	2090	1940	2090	2050	2050	2120	2070	2100	2120	2070
27	---	---	---	2110	2080	2100	2080	1950	2080	2050	2050	2230	2100	2160	2230	2100
28	---	---	---	2100	2000	2030	2100	1980	2100	2080	2080	2240	2080	2150	2240	2080
29	---	---	---	2120	1990	2010	2070	2000	2070	2050	2050	2210	2120	2170	2210	2120
30	---	---	---	2020	2000	2020	2080	2020	2080	2060	2060	2170	2050	2140	2170	2050
31	---	---	---	---	---	---	2120	2070	2120	2100	2100	2150	2030	2110	2150	2030
MONTH	2400	2010	2190	2190	1990	2100	2200	1940	2200	2070	2070	2250	1970	2100	2250	1970

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09706042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STRFAM SOURCE AGENCY USGS
 LATITUDE 395001 LONGITUDE 1021312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1940 TO SEPTEMBER 1941

DAY	FEBRUARY						MARCH						APRIL						MAY					
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN			
1	2140	2070	2110	2160	2010	2080	2130	2040	2110	2250	2040	2130	2250	2040	2130	2250	2040	2130	2250	2040	2130			
2	2170	2050	2120	2200	2000	2100	2160	2040	2110	2250	2040	2160	2250	2040	2110	2250	2040	2110	2250	2040	2110			
3	2190	2050	2140	2150	2000	2040	2100	2040	2090	2190	1920	2100	2190	1870	2060	2190	1870	2060	2190	1870	2060			
4	2120	2040	2070	2130	2040	2080	2130	2040	2090	2130	2050	2130	2200	2100	2100	2200	2100	2140	2200	2100	2140			
5	2130	2020	2090	2140	1940	2090	2140	2040	2110	2130	2040	2140	2130	2040	2110	2130	2040	2110	2130	2040	2110			
6	2170	2040	2100	2130	1970	2010	2160	2050	2100	2110	2050	2160	2110	2050	2100	2110	2050	2100	2110	2050	2100			
7	2050	2010	2040	2140	2010	2070	2090	2050	2070	2200	2040	2090	2200	2040	2070	2200	2040	2070	2200	2040	2070			
8	2250	2050	2170	2090	2000	2060	2110	2010	2040	2110	2040	2110	2140	2020	2040	2110	2020	2040	2110	2020	2040			
9	2250	2020	2140	2220	2060	2130	2130	2050	2080	2130	2050	2130	2170	1890	2080	2170	1890	2080	2170	1890	2080			
10	2100	2020	2070	2160	2090	2120	2140	2060	2090	2140	2060	2140	2140	2010	2090	2140	2010	2090	2140	2010	2090			
11	2190	2100	2150	2260	2080	2160	2170	2070	2110	2160	2070	2170	2180	1920	2110	2180	1920	2110	2180	1920	2110			
12	2160	2040	2090	2220	2110	2160	2160	2070	2110	2220	2050	2160	2220	2050	2110	2220	2050	2110	2220	2050	2110			
13	2110	2040	2040	2190	2080	2120	2210	2090	2140	2170	1830	2210	2170	1830	2090	2170	1830	2090	2170	1830	2090			
14	2180	2050	2120	2220	2120	2140	2230	2100	2170	2170	1870	2230	2110	1870	2100	2170	1870	2100	2170	1870	2100			
15	2120	2040	2030	2360	2160	2240	2170	2080	2130	2040	1990	2170	2040	1990	2130	2040	1990	2130	2040	1990	2130			
16	2160	2040	2110	2220	2090	2160	2150	2060	2110	2100	1960	2150	2100	1960	2110	2100	1960	2110	2100	1960	2110			
17	2080	2000	2060	2300	2110	2190	2140	2080	2100	2170	1970	2140	2170	1970	2100	2170	1970	2100	2170	1970	2100			
18	2120	2050	2040	2280	2130	2140	2130	2060	2090	2250	2000	2130	2250	2000	2100	2250	2000	2100	2250	2000	2100			
19	2160	2040	2040	2210	2100	2160	2140	2060	2100	2190	2050	2140	2190	2050	2100	2190	2050	2100	2190	2050	2100			
20	2170	2000	2110	2180	2070	2130	2160	2040	2130	2100	1920	2160	2100	1920	2130	2100	1920	2130	2100	1920	2130			
21	2180	2010	2040	2230	2140	2200	2150	2030	2110	2100	1970	2150	2100	1970	2110	2100	1970	2110	2100	1970	2110			
22	2180	2050	2120	2200	2130	2160	2190	2120	2140	2050	1890	2190	2050	1890	2140	2050	1890	2140	2050	1890	2140			
23	2260	2040	2150	2180	2070	2130	2200	2110	2140	2050	1920	2200	2050	1920	2140	2050	1920	2140	2050	1920	2140			
24	2120	2010	2070	2200	2090	2160	2210	2130	2150	2060	1850	2210	2060	1850	2150	2060	1850	2150	2060	1850	2150			
25	2170	2020	2060	2260	2140	2230	2220	2110	2160	2040	1990	2220	2040	1990	2160	2040	1990	2160	2040	1990	2160			
26	2210	2050	2140	2300	2040	2220	2210	2100	2150	2050	1960	2210	2050	1960	2150	2050	1960	2150	2050	1960	2150			
27	2130	2000	2040	2250	2030	2170	2220	2120	2140	2030	1970	2220	2030	1970	2140	2030	1970	2140	2030	1970	2140			
28	2180	2030	2100	2140	2000	2110	2240	2110	2180	2040	1900	2240	2040	1900	2180	2040	1900	2180	2040	1900	2180			
29	---	---	---	2140	2100	2120	2230	2120	2160	2070	1980	2230	2070	1980	2160	2070	1980	2160	2070	1980	2160			
30	---	---	---	2110	1950	2040	2220	2020	2150	2070	1950	2220	2070	1950	2150	2070	1950	2150	2070	1950	2150			
31	---	---	---	2110	2050	2030	---	---	---	---	1940	---	---	1940	---	---	1940	---	---	1940	---			
MONTH	2260	2000	2100	2360	1870	2130	2240	1920	2120	2250	1830	2240	2250	1830	2120	2250	1830	2120	2250	1830	2120			

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBR	PCEANCE CREEK TRIUTARY NEAR WIO BLANCO, CO.	STREAM	SOURCE AGENCY USGS
09306042			
LONGITUDE 1091312	DRAINAGE AREA	DATUM	STATE 08 COUNTY 103
		6335.00	

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1940 TO SEPTEMBER 1941

DAY	MAX	MTN	MFAN	MAX	MIN	MEAN	JULY			MAX	MTN	MEAN	AUGUST			MAX	MTN	MEAN	SEPTEMBER		
							MAX	MIN	MEAN				MAX	MIN	MEAN				MAX	MIN	MEAN
1	2070	1960	2010	2020	2000	2010	2060	1930	1970	2050	1910	1970	2060	1990	1970	2060	1910	1970	2060	1990	
2	2060	1950	2000	2100	1990	2030	2060	1950	1980	2090	1910	1980	2060	1910	1980	2060	1910	1980	2060	1990	
3	2010	1900	1950	2100	1910	1970	2090	1900	1970	2090	1940	1960	2090	1940	1960	2090	1940	1960	2090	1990	
4	2120	1990	2040	2070	1730	1930	2090	1850	1950	2090	1920	1990	2090	1920	1990	2090	1920	1990	2090	1990	
5	2090	1970	2020	2080	1750	1950	2040	1880	1960	2090	1990	1990	2100	1990	1990	2100	1990	1990	2100	1990	
6	2100	1970	2030	2060	1830	1970	2060	1930	1970	2050	1910	1970	2050	1910	1970	2050	1910	1970	2050	1970	
7	2070	1910	2000	2100	1950	1980	2090	1900	1970	2090	1910	1980	2090	1910	1980	2090	1910	1980	2090	1970	
8	2040	1870	1950	2090	1900	1970	2060	1900	1970	2090	1910	1970	2090	1910	1970	2090	1910	1970	2090	1970	
9	2110	1870	1980	2050	1850	1950	2090	1850	1950	2090	1910	1950	2090	1910	1950	2090	1910	1950	2090	1970	
10	2220	1980	2020	2040	1880	1960	2040	1880	1960	2090	1910	1960	2090	1910	1960	2090	1910	1960	2090	1970	
11	2100	2060	2070	2060	1740	1950	2060	1740	1950	2090	1910	1950	2090	1910	1950	2090	1910	1950	2090	1970	
12	2150	2020	2040	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
13	2170	2010	2060	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
14	2090	1960	2060	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
15	2140	1920	2050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
16	2130	1960	2030	2010	1890	1960	2010	1890	1960	2090	1910	1960	2090	1910	1960	2090	1910	1960	2090	1970	
17	2110	2000	2040	2016	1650	1930	2016	1650	1930	2090	1910	1930	2090	1910	1930	2090	1910	1930	2090	1970	
18	2100	1990	2030	2060	1810	1960	2060	1810	1960	2090	1910	1960	2090	1910	1960	2090	1910	1960	2090	1970	
19	2130	1990	2050	2080	1900	1990	2080	1900	1990	2090	1910	1990	2090	1910	1990	2090	1910	1990	2090	1970	
20	---	---	---	2100	1890	1970	2100	1890	1970	2090	1910	1970	2090	1910	1970	2090	1910	1970	2090	1970	
21	---	---	---	2080	1900	1990	2080	1900	1990	2090	1910	1990	2090	1910	1990	2090	1910	1990	2090	1970	
22	---	---	---	2090	1900	2010	2090	1900	2010	2090	1910	2010	2090	1910	2010	2090	1910	2010	2090	1970	
23	2060	1950	2010	2110	1890	1990	2110	1890	1990	2090	1910	1990	2090	1910	1990	2090	1910	1990	2090	1970	
24	2120	1970	2030	2120	1720	1960	2120	1720	1960	2090	1910	1960	2090	1910	1960	2090	1910	1960	2090	1970	
25	2120	2000	2040	2090	1880	2010	2090	1880	2010	2090	1910	2010	2090	1910	2010	2090	1910	2010	2090	1970	
26	2240	1980	2020	2080	1810	1990	2080	1810	1990	2090	1910	1990	2090	1910	1990	2090	1910	1990	2090	1970	
27	2060	1750	1960	2080	1910	1940	2080	1910	1940	2090	1910	1940	2090	1910	1940	2090	1910	1940	2090	1970	
28	2060	1940	1990	2090	1900	1990	2090	1900	1990	2090	1910	1990	2090	1910	1990	2090	1910	1990	2090	1970	
29	2090	1990	2000	2040	1890	1960	2040	1890	1960	2090	1910	1960	2090	1910	1960	2090	1910	1960	2090	1970	
30	2090	1950	2010	2040	1890	1960	2040	1890	1960	2090	1910	1960	2090	1910	1960	2090	1910	1960	2090	1970	
31	---	---	---	2090	1910	1970	2090	1910	1970	2090	1910	1970	2090	1910	1970	2090	1910	1970	2090	1970	
MONTH	2240	1750	2020	2120	1650	1970	2120	1650	1970	2100	1880	1970	2100	1880	1970	2100	1880	1970	2100	1970	
YEAR	2400	1650	2090	2400	1650	2090	2400	1650	2090	2400	1650	2090	2400	1650	2090	2400	1650	2090	2400	2090	

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE 15 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 395001

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STRFAM
LONGITUDE 1041312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

PH (STANDARD UNITS). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
-----	-----	-----	------	-----	-----	------	-----	-----	------

JANUARY

DECEMBER

NOVEMBER

OCTOBER

1
2
3
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11
12
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30
31

MONTH

STATION NUMBER
LATITUDE 395001

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY					MARCH					APRIL					MAY				
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN		
1	---	---	---	8.8	8.6	8.7	8.9	8.5	8.8	8.9	8.8	8.7	8.9	8.5	8.8	8.8	8.6	8.7		
2	---	---	---	8.8	8.6	8.7	8.8	8.6	8.7	8.8	8.8	8.7	8.8	8.6	8.7	8.7	8.6	8.6		
3	---	---	---	8.7	8.6	8.6	8.9	8.7	8.7	8.8	8.9	8.7	8.8	8.6	8.8	8.7	8.6	8.6		
4	---	---	---	8.8	8.6	8.7	8.8	8.6	8.7	8.8	8.8	8.7	8.8	8.6	8.7	8.7	8.6	8.6		
5	---	---	---	8.8	8.5	8.6	9.2	8.7	8.6	8.6	9.0	8.7	8.9	8.7	9.0	8.9	8.6	8.7		
6	---	---	---	9.7	8.5	8.6	8.9	8.7	8.6	8.6	8.9	8.7	8.8	8.7	8.8	8.8	8.6	8.7		
7	---	---	---	9.7	8.5	8.6	8.8	8.7	8.6	8.6	8.8	8.7	8.7	8.7	8.7	8.9	8.6	8.7		
8	---	---	---	8.7	8.5	8.6	8.9	8.7	8.6	8.6	8.9	8.7	8.8	8.7	8.8	8.9	8.6	8.7		
9	---	---	---	8.7	8.5	8.6	8.9	8.7	8.6	8.6	9.0	8.7	8.8	8.7	8.8	8.9	8.6	8.7		
10	---	---	---	9.7	8.5	8.6	9.0	8.7	8.6	8.6	9.0	8.7	8.9	8.7	8.9	9.0	8.6	8.7		
11	---	---	---	8.6	8.5	8.6	8.9	8.6	8.6	8.6	8.9	8.7	8.8	8.6	8.8	8.9	8.6	8.7		
12	---	---	---	9.7	8.5	8.6	8.9	8.7	8.6	8.6	8.9	8.7	8.8	8.7	8.8	8.9	8.6	8.7		
13	---	---	---	8.7	8.5	8.6	8.9	8.7	8.6	8.6	8.9	8.7	8.7	8.6	8.7	8.9	8.6	8.8		
14	---	---	---	9.7	8.5	8.6	8.9	8.7	8.6	8.6	8.9	8.7	8.7	8.6	8.7	8.9	8.7	8.7		
15	---	---	---	8.7	8.5	8.5	8.9	8.7	8.5	8.5	8.9	8.7	8.7	8.6	8.7	8.9	8.7	8.8		
16	---	---	---	9.7	8.5	8.6	8.9	8.7	8.6	8.6	8.9	8.7	8.8	8.6	8.7	8.9	8.7	8.9		
17	---	---	---	8.7	8.5	8.6	8.9	8.7	8.6	8.6	8.9	8.7	8.7	8.6	8.7	8.9	8.7	8.9		
18	---	---	---	9.7	8.5	8.5	8.9	8.7	8.5	8.5	8.9	8.7	8.7	8.6	8.7	8.9	8.6	8.6		
19	---	---	---	8.7	8.5	8.5	8.9	8.7	8.5	8.5	8.9	8.7	8.7	8.6	8.7	8.9	8.6	8.7		
20	---	---	---	8.8	8.5	8.6	8.8	8.7	8.5	8.6	8.8	8.7	8.6	8.5	8.6	8.8	8.6	8.7		
21	---	---	---	9.7	8.5	8.5	8.9	8.7	8.5	8.5	8.9	8.7	8.7	8.6	8.7	8.9	8.7	8.7		
22	---	---	---	8.8	8.5	8.6	8.9	8.7	8.5	8.6	8.9	8.7	8.7	8.5	8.7	8.9	8.7	8.8		
23	8.6	8.6	8.6	9.8	8.5	8.6	8.8	8.7	8.5	8.6	8.8	8.7	8.6	8.5	8.6	9.0	8.8	8.9		
24	8.7	8.6	8.6	8.6	8.4	8.5	9.0	8.7	8.4	8.5	9.0	8.7	8.8	8.7	8.8	8.9	8.7	8.8		
25	8.8	8.6	8.7	8.8	8.4	8.6	8.8	8.7	8.4	8.6	8.8	8.7	8.6	8.5	8.6	8.9	8.7	8.8		
26	8.7	8.6	8.6	8.8	8.6	8.7	8.8	8.7	8.6	8.7	8.9	8.7	8.6	8.5	8.6	8.9	8.8	8.8		
27	8.8	8.6	8.7	8.8	8.6	8.7	8.8	8.7	8.6	8.7	8.9	8.7	8.6	8.6	8.6	8.9	8.7	8.8		
28	8.8	8.6	8.7	8.8	8.6	8.7	8.8	8.7	8.6	8.7	8.8	8.7	8.6	8.5	8.6	8.8	8.6	8.7		
29	---	---	---	9.0	8.6	8.8	8.9	8.7	8.6	8.8	8.9	8.7	8.7	8.6	8.7	9.0	8.6	8.7		
30	---	---	---	9.4	8.9	9.2	9.1	8.8	9.2	9.0	9.1	8.9	8.9	8.8	8.9	9.0	8.6	8.7		
31	---	---	---	9.2	8.8	9.0	---	---	---	---	---	---	---	---	---	8.8	8.6	8.7		
MONTH	8.8	8.6	8.7	9.4	8.4	8.7	9.2	8.5	8.7	8.7	9.2	8.5	8.7	8.6	8.7	9.0	8.6	8.7		

STATION NUMBER 09306042
LATITUDE 395001
LONGITUDE

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			MEAN	MIN	MAX	SEPT
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN				
1	9.0	8.7	8.7	8.7	8.6	8.6	8.7	8.7	8.8	9.2	8.6	8.8				
2	8.9	8.7	8.7	8.7	8.6	8.6	8.7	8.7	8.8	9.1	8.5	8.7				
3	8.8	8.6	8.6	8.6	8.5	8.5	8.6	8.7	8.8	9.1	8.5	8.7				
4	8.8	8.6	8.6	8.6	8.5	8.5	8.6	8.7	8.8	9.1	8.5	8.7				
5	9.0	8.6	8.6	8.6	8.5	8.5	8.6	8.7	8.8	9.0	8.5	8.7				
6	8.9	8.6	8.6	8.6	8.5	8.5	8.6	8.7	8.8	8.8	8.5	8.6				
7	8.9	8.6	8.6	8.6	8.5	8.5	8.6	8.7	8.7	---	---	---				
8	8.9	8.6	8.6	8.6	8.5	8.5	8.6	8.7	8.7	---	---	---				
9	9.0	8.6	8.6	8.6	8.5	8.5	8.6	8.7	8.7	---	---	---				
10	9.2	8.6	8.6	8.6	8.5	8.5	8.6	8.7	8.7	---	---	---				
11	---	---	---	---	8.6	8.6	8.6	8.7	8.7	---	---	---				
12	---	---	---	---	8.6	8.6	8.7	8.7	8.7	---	---	---				
13	8.7	8.5	8.6	8.6	8.6	8.7	8.7	8.7	8.7	---	---	---				
14	8.9	8.7	8.7	8.7	8.6	8.6	8.6	8.7	8.8	---	---	---				
15	8.9	8.7	8.8	8.8	8.6	8.6	8.6	8.7	8.8	---	---	---				
16	9.2	8.6	8.7	8.7	8.6	8.6	8.6	8.7	8.7	---	---	---				
17	8.8	8.6	8.7	8.7	8.6	8.6	8.6	8.7	8.7	---	---	---				
18	8.9	8.7	8.8	8.8	8.6	8.6	8.6	8.7	8.7	---	---	---				
19	8.9	8.7	8.8	8.8	8.6	8.6	8.6	8.7	8.7	---	---	---				
20	8.9	8.7	8.8	8.8	8.6	8.6	8.6	8.7	8.7	---	---	---				
21	8.9	8.7	8.8	8.8	8.6	8.6	8.6	8.7	8.8	---	---	---				
22	9.0	8.6	8.7	8.7	8.6	8.6	8.6	8.7	8.8	---	---	---				
23	8.9	8.7	8.8	8.8	8.6	8.6	8.6	8.7	8.7	---	---	---				
24	9.1	8.6	8.8	8.8	8.6	8.5	8.5	8.6	8.6	---	---	---				
25	9.0	8.7	8.8	8.8	8.6	8.5	8.5	8.6	8.6	---	---	---				
26	9.2	8.7	8.9	8.9	8.6	8.6	8.6	8.7	8.7	---	---	---				
27	8.9	8.7	8.8	8.8	8.4	8.4	8.4	8.7	8.7	---	---	---				
28	8.8	8.7	8.7	8.7	8.5	8.5	8.5	8.7	8.7	---	---	---				
29	8.9	8.7	8.8	8.8	8.4	8.4	8.4	8.6	8.6	---	---	---				
30	9.2	8.8	8.9	8.9	8.6	8.6	8.6	8.8	8.8	---	---	---				
31	---	---	---	---	8.6	8.6	8.6	8.8	8.8	---	---	---				
MONTH	9.2	8.5	8.8	8.8	8.4	8.4	8.4	8.7	8.7	9.2	8.5	8.7				
YEAR	9.4	8.4	8.7	8.7												

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 394851

09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO.
LONGITUDE 1081435 DRAINAGE AREA 7.97 DATUM 5434.00

SOURCE AGENCY USGS
STATE OR COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN	
1					11.0											
2					10.9		.5									
3					1.5		.0									
4					---		---									
5					---		---									
6					---		---									
7					---		---									
8					---		---									
9					---		---									
10					---		---									
11					---		---									
12					---		---									
13					---		---									
14					---		---									
15					---		---									
16					---		---									
17					---		---									
18					---		---									
19					---		---									
20					---		---									
21					---		---									
22					---		---									
23					---		---									
24					---		---									
25					---		---									
26					---		---									
27					---		---									
28					---		---									
29					---		---									
30					---		---									
31					---		---									
MONTH					11.0		.0									

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306052 SCANDAPD GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 304451 LONGITUDE 1021435 DRAINAGE AREA 7.97 DATUM 6434.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE 08 COUNTY 103

STREAM
6434.00

DATUM
7.97

NEAR RIO BLANCO, CO.
DRAINAGE AREA

09306052 STANDARD GULCH AT MOUTH,
LONGITUDE 1081435

STATION NUMBER
LATITUDE 394851

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

MIN MAX MEAN
SEPTEMBER

MIN MAX MEAN
AUGUST

MIN MAX MEAN
JULY

MIN MAX MEAN
JUNE

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31

MONTH

YEAR 11.0 .0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCFSS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306052
 LONGITUDE 394851

SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM
 DRAINAGE AREA 1081435 DATUM 5434.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1940 TO SEPTEMBER 1941

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				674	476	527						
2				658	470	529						
3				---	---	---						
4				---	---	---						
5				---	---	---						
6				---	---	---						
7				---	---	---						
8				---	---	---						
9				---	---	---						
10				---	---	---						
11				---	---	---						
12				---	---	---						
13				---	---	---						
14				---	---	---						
15				---	---	---						
16				---	---	---						
17				---	---	---						
18				---	---	---						
19				---	---	---						
20				---	---	---						
21				---	---	---						
22				---	---	---						
23				---	---	---						
24				---	---	---						
25				---	---	---						
26				---	---	---						
27				---	---	---						
28				---	---	---						
29				---	---	---						
30				---	---	---						
31				---	---	---						
MONTH				674	470	528						

PROCFSS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
LATITUDE 394851 LONGITUDE 1081435 DRAINAGE AREA 7.97 DATUM 6434.00 STATE OR COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
											APRIL	MAY
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

PROCESS DATE IS 12-22-81

STATION NUMBER 09306052 SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO. STRFAM SOURCE AGENCY USGS
 LATITUDE 394951 LONGITUDE 1081435 DRAINAGE AREA 7.97 DATUM 6434.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												
YEAR	674	470	528									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

WILLOW CREEK NEAR RIO BLANCO, CO. SOURCE AGENCY USGS
 DRAINAGE AREA 48.40 DATUM 6273.00 STATE OH COUNTY 103
 LONGITUDE 1081437

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
1	15.0	6.0	10.0	---	---	---	---	---	---	6.0	.0	2.5
2	13.0	5.0	9.0	---	---	---	---	---	---	7.0	.5	3.5
3	12.5	4.5	8.5	---	---	---	---	---	---	6.5	1.0	3.5
4	12.5	3.5	8.0	---	---	---	---	---	---	6.5	1.5	4.0
5	13.0	4.0	8.0	9.5	2.0	5.5	---	---	---	4.0	2.0	3.0
6	13.0	4.0	8.5	8.5	2.5	5.5	---	---	---	4.5	.0	2.0
7	13.0	4.5	8.5	10.0	3.5	6.5	---	---	---	3.0	.0	.5
8	13.0	4.0	8.5	9.5	4.0	6.0	---	---	---	3.0	.0	.5
9	12.5	4.0	8.0	9.5	2.0	5.0	---	---	---	4.0	.0	1.0
10	12.0	3.5	7.5	12.0	2.0	6.5	---	---	---	6.0	.0	2.0
11	11.5	3.0	7.5	15.0	4.0	7.5	---	---	---	4.0	.0	1.0
12	10.0	5.0	7.5	---	---	---	---	---	---	3.5	.0	1.0
13	13.0	7.0	9.5	---	---	---	---	---	---	6.5	.0	1.0
14	11.0	6.0	8.5	---	---	---	---	---	---	3.5	.0	1.0
15	8.5	5.5	6.5	---	---	---	---	---	---	5.5	.0	2.0
16	7.5	3.5	5.5	---	---	---	6.5	2.0	4.5	4.5	.0	2.0
17	8.5	4.5	6.0	---	---	---	7.0	.5	3.5	5.5	1.0	3.0
18	9.0	4.5	6.5	---	---	---	7.0	1.0	3.5	6.5	.0	2.5
19	10.5	2.5	6.5	---	---	---	5.5	1.0	3.0	5.5	.0	2.0
20	11.0	2.5	6.5	---	---	---	6.0	.0	2.5	6.5	.0	2.0
21	10.5	2.5	6.5	---	---	---	6.5	.5	3.0	5.0	.0	1.5
22	10.5	3.5	6.5	---	---	---	6.5	2.5	4.5	6.0	.0	2.0
23	8.0	1.0	4.5	---	---	---	6.0	1.5	3.5	9.0	.0	2.5
24	8.5	.0	4.0	---	---	---	5.5	.0	2.5	6.0	.0	3.0
25	9.0	.5	4.5	---	---	---	7.0	1.5	4.0	6.0	.0	2.0
26	6.5	2.0	4.5	---	---	---	7.0	1.0	3.5	2.5	.0	1.0
27	6.0	3.0	4.5	---	---	---	7.0	1.0	3.5	4.0	.0	1.5
28	6.0	.5	3.0	---	---	---	6.5	1.5	3.5	12.0	2.0	5.0
29	8.0	.0	2.5	---	---	---	5.5	.0	2.0	10.5	2.0	4.5
30	---	---	---	---	---	---	6.0	.0	2.5	9.0	.5	2.0
31	---	---	---	---	---	---	6.5	.0	2.5	2.0	.0	.5
MONTH	15.0	.0	6.5	15.0	2.0	6.0	7.0	.0	3.5	12.0	.0	2.0

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39501409306058 WILLOW CREEK NEAR RIO BLANCO, CO.
LONGITUDE 1081437 DRAINAGE AREASTREFAM
6273.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY					MARCH					APRIL					MAY				
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	4.0	.0	1.0	8.0	1.0	4.5	14.0	1.5	6.5	24.5	13.0	19.5								
2	4.0	.0	.5	9.5	1.0	4.5	15.5	2.0	8.0	22.5	9.0	15.0								
3	2.0	.0	.5	9.5	1.0	4.5	7.0	.5	4.5	14.5	6.0	9.5								
4	4.5	.0	1.0	11.5	1.5	5.5	10.0	1.0	5.0	22.0	4.5	11.5								
5	2.5	.0	1.0	10.0	.0	4.5	14.0	.0	5.5	18.5	4.5	10.0								
6	4.5	.0	1.5	4.0	.0	1.5	16.0	2.0	8.5	15.0	8.5	11.5								
7	3.0	.0	1.0	8.0	.5	3.5	10.0	4.0	7.0	17.5	6.5	10.0								
8	5.0	.0	1.5	10.5	.5	4.0	12.5	4.0	8.0	11.5	6.5	8.0								
9	6.0	1.0	3.0	13.0	.5	5.0	17.5	3.0	9.5	13.0	7.0	9.0								
10	2.0	.0	.5	12.5	1.0	6.0	17.5	3.5	9.5	14.0	7.5	10.0								
11	.5	.0	.0	9.0	.5	3.5	17.5	3.5	9.5	11.5	8.0	10.0								
12	5.5	.0	2.0	9.5	3.0	5.5	15.0	3.5	9.0	15.5	5.5	9.5								
13	8.0	.0	3.0	9.0	.0	2.0	15.0	6.0	9.5	19.0	4.0	10.0								
14	7.0	1.5	4.0	---	---	---	15.0	3.0	8.5	22.0	4.5	12.0								
15	9.5	2.0	5.5	---	---	---	16.0	7.5	10.5	17.0	6.0	11.0								
16	10.5	1.5	5.0	---	---	---	15.0	4.5	9.5	17.0	7.5	11.0								
17	8.0	2.0	4.5	---	---	---	---	---	---	14.5	6.5	10.0								
18	9.0	1.5	5.0	---	---	---	---	---	---	23.5	7.0	14.0								
19	9.0	1.0	4.5	12.5	5.0	8.5	---	---	---	16.0	6.0	11.5								
20	4.0	.0	2.5	9.5	3.0	5.5	---	---	---	15.5	7.0	10.5								
21	6.5	.0	2.0	6.5	2.0	4.0	---	---	---	13.0	3.5	8.0								
22	7.5	.0	2.5	11.5	1.0	5.5	---	---	---	15.0	6.5	10.5								
23	10.5	.0	4.0	13.0	2.0	6.5	---	---	---	20.0	7.5	12.5								
24	10.5	.0	4.0	9.0	3.0	5.5	---	---	---	18.5	4.0	12.0								
25	10.0	.0	4.0	14.5	1.0	7.0	---	---	---	18.0	6.5	12.0								
26	6.5	1.0	3.5	14.5	4.0	8.0	---	---	---	17.5	8.0	12.5								
27	11.5	1.5	5.0	12.0	3.5	7.0	---	---	---	22.0	16.0	18.5								
28	11.0	.0	5.0	7.0	2.0	4.5	---	---	---	24.0	10.0	15.5								
29	---	---	---	15.5	2.0	7.5	---	---	---	23.5	9.0	15.5								
30	---	---	---	5.0	1.0	3.5	---	---	---	25.5	6.5	15.5								
31	---	---	---	12.0	.0	5.0	---	---	---	22.5	10.5	15.0								
MONTH	11.5	.0	3.0	15.5	.0	5.0	17.5	.0	8.0	25.5	3.5	12.0								

STATION NUMBER
LATITUDE 39501409306058 WILLOW CREEK NEAR PIO BLANCO, CO.
LONGITUDE 1081437STRTAM SOURCE AGENCY USGS
DATUM 6273.00 STATE OR COUNTY 103

TEMPERATURE, WATER (DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
												SEPTEMBER
												AUGUST
												JULY
												JUNE
1	23.5	7.5	15.5	18.0	12.0	14.5						
2	25.5	8.0	15.5	26.5	11.5	17.5						
3	17.5	9.5	13.0	26.0	9.0	15.5						
4	25.0	8.0	15.0	28.0	8.5	16.5						
5	28.0	7.5	16.0	29.0	8.0	17.0						
6	27.0	7.5	16.0	28.5	8.5	17.0						
7	26.0	10.0	16.5	28.0	10.0	17.5						
8	26.5	9.0	16.5	28.5	10.0	14.0						
9	25.0	9.5	16.0	22.5	11.5	16.0						
10	26.0	9.5	16.5	24.5	10.5	16.5						
11	25.5	9.0	16.0	26.0	10.5	17.5						
12	26.0	8.5	15.0	24.0	12.5	16.5						
13	23.0	8.5	14.0	27.0	13.0	16.5						
14	16.5	6.0	10.0	24.5	12.0	18.5						
15	21.5	4.5	11.5	27.0	10.0	16.0						
16	24.0	4.5	12.5	17.5	11.0	14.0						
17	25.5	6.5	14.5	17.5	11.5	14.0						
18	23.5	7.0	14.0	25.5	10.0	15.5						
19	26.5	7.5	15.5	27.0	10.0	16.5						
20	26.5	7.5	15.5	26.0	4.0	15.5						
21	27.0	7.5	16.0	27.0	8.5	16.0						
22	29.0	7.0	16.0	25.5	9.5	16.0						
23	23.0	8.0	14.5	26.5	8.5	15.5						
24	29.0	8.5	17.0	24.5	11.0	15.5						
25	26.5	7.5	16.0	25.5	11.5	16.5						
26	29.5	10.0	14.0	23.0	11.0	15.0						
27	25.5	12.0	17.5	24.5	9.0	15.0						
28	23.5	12.0	14.5	22.5	8.5	12.0						
29	27.0	9.5	14.5	---	---	---						
30	26.0	9.0	15.5	---	---	---						
31	---	---	---	---	---	---						
MONTH	29.5	4.5	15.5	29.0	8.0	16.0						
YEAR	29.5	.0	8.0									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
 LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER					NOVEMBER					DECEMBER					JANUARY				
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	1290	1190	1230	---	---	---	---	---	---	---	---	---	---	---	---	1220	1190	1200	---	---
2	1300	1190	1240	---	---	---	---	---	---	---	---	---	---	---	---	1200	1190	1190	---	---
3	1310	1210	1260	---	---	---	---	---	---	---	---	---	---	---	---	1200	1160	1190	---	---
4	1290	1210	1250	1210	1170	1180	---	---	---	---	---	---	---	---	---	1190	1160	1180	---	---
5	1290	1210	1250	1220	1160	1200	---	---	---	---	---	---	---	---	---	1190	1150	1160	---	---
6	1290	1210	1250	1220	1170	1200	---	---	---	---	---	---	---	---	---	1230	1180	1210	---	---
7	1290	1200	1250	1220	1160	1190	---	---	---	---	---	---	---	---	---	1240	1150	1230	---	---
8	1280	1200	1250	1220	1170	1200	---	---	---	---	---	---	---	---	---	1240	1150	1240	---	---
9	1280	1200	1240	1220	1160	1200	---	---	---	---	---	---	---	---	---	1310	1160	1240	---	---
10	1290	1210	1250	1220	1160	1190	---	---	---	---	---	---	---	---	---	1270	1180	1230	---	---
11	1280	1210	1250	1210	1180	1190	---	---	---	---	---	---	---	---	---	1310	1160	1240	---	---
12	1270	1210	1250	---	---	---	---	---	---	---	---	---	---	---	---	1310	1150	1240	---	---
13	1280	1210	1250	---	---	---	---	---	---	---	---	---	---	---	---	1320	1170	1200	---	---
14	1280	1200	1250	---	---	---	---	---	---	---	---	---	---	---	---	1320	1160	1250	---	---
15	1330	1230	1280	---	---	---	---	---	---	---	---	---	---	---	---	1270	1190	1230	---	---
16	1280	1230	1260	---	---	---	---	---	---	---	---	---	---	---	---	1270	1190	1230	---	---
17	1290	1240	1270	---	---	---	---	---	---	---	---	---	---	---	---	1240	1190	1220	---	---
18	1280	1240	1260	---	---	---	---	---	---	---	---	---	---	---	---	1260	1190	1220	---	---
19	1290	1210	1260	---	---	---	---	---	---	---	---	---	---	---	---	1280	1170	1220	---	---
20	1280	1210	1250	---	---	---	---	---	---	---	---	---	---	---	---	1250	1190	1220	---	---
21	1290	1220	1250	---	---	---	---	---	---	---	---	---	---	---	---	1300	1170	1230	---	---
22	1280	1230	1260	---	---	---	---	---	---	---	---	---	---	---	---	1310	1160	1220	---	---
23	1290	1230	1260	---	---	---	---	---	---	---	---	---	---	---	---	1280	1150	1210	---	---
24	1290	1220	1260	---	---	---	---	---	---	---	---	---	---	---	---	1210	1170	1200	---	---
25	1280	1220	1260	---	---	---	---	---	---	---	---	---	---	---	---	1220	1180	1200	---	---
26	1270	1240	1260	---	---	---	---	---	---	---	---	---	---	---	---	1280	1160	1220	---	---
27	1260	1240	1250	---	---	---	---	---	---	---	---	---	---	---	---	1220	1160	1160	---	---
28	1270	1220	1240	---	---	---	---	---	---	---	---	---	---	---	---	1200	1020	1180	---	---
29	1260	1210	1230	---	---	---	---	---	---	---	---	---	---	---	---	1190	1140	1170	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1200	1150	1190	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1230	1160	1190	---	---
MONTH	1330	1180	1250	1220	1160	1190	1230	1130	1180	1320	1020	1210								

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM 6273.00 SOURCE AGENCY USGS
 LATITUDE 395014 LONGITUDE 1081437 DRAINAGE APFA 48.40 DATUM STATE OH COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C.) WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	FEBRUARY			MARCH			APRIL			MEAN	MAX	MIN	MEAN
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN				
1	1250	1160	1190	1240	1210	1230	1280	1210	1250	1280	1210	1250				
2	1360	1140	1260	1240	1210	1240	1290	1210	1250	1290	1210	1250				
3	1310	1090	1220	1260	1230	1250	1260	1230	1210	1270	1200	1240				
4	1260	1110	1190	1240	1210	1230	1270	1200	1240	1340	1150	1250				
5	1290	1100	1200	1300	1210	1250										
6	1210	1120	1170	1270	1130	1210	1290	1220	1240	1290	1220	1240				
7	1250	1080	1170	1240	1180	1210	1240	1230	1260	1240	1230	1260				
8	1210	1090	1150	1330	1170	1240	1290	1230	1260	1290	1230	1260				
9	1140	1090	1120	1310	1140	1240	1300	1220	1270	1300	1220	1270				
10	1200	1090	1130	1260	862	1150	1310	1240	1290	1310	1240	1290				
11	1310	1140	1250	1240	1200	1240	1320	1250	1290	1320	1250	1290				
12	1200	1090	1140	1250	1140	1220	1330	1270	1300	1330	1270	1300				
13	1230	1100	1160	1260	1220	1250	1330	1270	1310	1330	1270	1310				
14	1190	1120	1160	---	---	---	1340	1260	1300	1340	1260	1300				
15	1170	1090	1130	---	---	---	1290	1210	1250	1290	1210	1250				
16	1150	1080	1120	---	---	---	1210	1160	1190	1210	1160	1190				
17	1150	1110	1130	---	---	---	---	---	---	---	---	---				
18	1150	1080	1130	---	---	---	---	---	---	---	---	---				
19	1160	1100	1140	1240	1130	1170	---	---	---	---	---	---				
20	1160	1120	1140	1230	1120	1190	---	---	---	---	---	---				
21	1230	1100	1170	1220	1160	1190	---	---	---	---	---	---				
22	1270	1090	1180	1230	1160	1200	---	---	---	---	---	---				
23	1200	1010	1150	1260	1170	1220	---	---	---	---	---	---				
24	1180	1120	1150	1260	1160	1220	---	---	---	---	---	---				
25	1190	1140	1170	1240	1200	1240	---	---	---	---	---	---				
26	1210	1150	1180	1270	1210	1240	---	---	---	---	---	---				
27	1210	1160	1190	1280	1210	1240	---	---	---	---	---	---				
28	1240	1170	1210	1240	1210	1250	---	---	---	---	---	---				
29	---	---	---	1290	1220	1260	---	---	---	---	---	---				
30	---	---	---	1270	1160	1220	---	---	---	---	---	---				
31	---	---	---	1350	1150	1250	---	---	---	---	---	---				
MONTH	1360	1010	1170	1350	862	1230	1340	1130	1260	1340	1130	1260				

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

PROCESS DATE IS 12-22-81

STATION NUMBER
LATITUDE 395014

09306058 WILLOW CREEK NEAR RIO BLANCO, CO.
DRAINAGE AREA 1091437

STREAM
DATUM 6273.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1480	1390	1440						
2	1430	1300	1350	1590	1370	1450						
3	1440	1300	1370	1520	1340	1450						
4	1460	1330	1400	1550	1360	1460						
5	1450	1320	1390	1520	1340	1450						
6	1460	1280	1380	1500	1360	1450						
7	1440	1320	1380	1490	1310	1410						
8	1460	1310	1390	1480	1330	1420						
9	1450	1350	1400	1450	1320	1390						
10	1480	1360	1410	1460	1280	1380						
11	1500	1330	1410	1430	580	1300						
12	1480	1290	1380	1460	1150	1390						
13	1440	1290	1380	1410	1300	1360						
14	1430	1360	1400	1400	1300	1370						
15	1410	1280	1360	1440	1330	1400						
16	1410	1280	1340	1440	1340	1390						
17	1460	1270	1370	1410	1090	1350						
18	1440	1290	1370	1420	1160	1340						
19	1420	1310	1380	1410	1240	1350						
20	1450	1300	1380	1400	1230	1350						
21	1450	1290	1380	1380	1250	1260						
22	1570	1360	1460	1360	1200	1300						
23	1530	1370	1450	1340	1250	1310						
24	1500	1320	1420	1390	1240	1340						
25	1470	1330	1410	1420	1290	1360						
26	1450	1320	1390	1440	1330	1390						
27	1490	1380	1410	1490	1340	1420						
28	1470	1340	1400	1500	1340	1470						
29	1500	1340	1420	---	---	---						
30	1470	1420	1430	---	---	---						
31	---	---	---	---	---	---						
MONTH	1570	1270	1390	1590	580	1380						
YEAR	1590	580	1260									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39501409306058 WILLOW CREEK NEAR RIO BLANCO, CO.
LONGITUDE 1081437STREAM
DRAINAGE AREA 49.40 DATUM 6273.00 STATE OR COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER					NOVEMBER					DECEMBER					JANUARY				
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	9.8	7.9	8.9	---	---	---	---	---	---	---	---	---	---	---	---	10.5	9.1	9.5	---	---
2	9.9	8.1	9.0	---	---	---	---	---	---	---	---	---	---	---	---	10.1	8.9	9.4	---	---
3	9.8	8.4	9.1	---	---	---	---	---	---	---	---	---	---	---	---	9.8	8.8	9.3	---	---
4	10.1	8.2	9.2	10.3	7.8	8.6	---	---	---	---	---	---	---	---	---	10.0	9.1	9.5	---	---
5	9.9	8.2	9.0	9.8	8.2	9.0	---	---	---	---	---	---	---	---	---	10.0	9.3	9.5	---	---
6	10.2	8.2	9.1	9.9	8.5	9.0	---	---	---	---	---	---	---	---	---	10.1	8.4	9.3	---	---
7	10.1	8.1	9.1	10.2	8.4	9.4	---	---	---	---	---	---	---	---	---	10.0	9.4	9.6	---	---
8	10.0	8.1	9.0	10.3	9.0	9.5	---	---	---	---	---	---	---	---	---	10.1	9.5	9.8	---	---
9	9.9	8.0	8.9	10.5	9.0	9.8	---	---	---	---	---	---	---	---	---	10.3	9.5	9.9	---	---
10	9.9	8.2	9.0	10.4	8.1	9.2	---	---	---	---	---	---	---	---	---	10.3	9.5	10.0	---	---
11	9.7	7.9	8.8	9.5	8.0	8.4	---	---	---	---	---	---	---	---	---	10.6	9.8	10.3	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.6	9.1	10.3	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.9	9.9	10.5	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.4	9.7	10.1	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.4	9.5	10.0	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10.5	9.8	10.1	---	---
17	---	---	---	---	---	---	---	---	---	---	9.6	10.1	10.3	9.5	10.0	10.3	9.5	10.0	---	---
18	---	---	---	---	---	---	---	---	---	---	10.1	10.6	10.5	9.5	10.1	10.5	9.5	10.1	---	---
19	---	---	---	---	---	---	---	---	---	---	10.4	10.8	10.6	9.6	10.2	10.5	9.6	10.2	---	---
20	---	---	---	---	---	---	---	---	---	---	10.2	10.8	10.8	9.8	10.3	10.8	9.8	10.3	---	---
21	---	---	---	---	---	---	---	---	---	---	10.1	10.6	10.9	9.8	10.6	10.9	9.8	10.6	---	---
22	---	---	---	---	---	---	---	---	---	---	10.0	10.4	11.1	9.8	10.5	11.1	9.8	10.5	---	---
23	9.8	8.3	9.0	---	---	---	---	---	---	---	10.1	10.4	10.6	9.4	10.2	10.6	9.4	10.2	---	---
24	9.7	8.5	9.2	---	---	---	---	---	---	---	10.1	10.5	10.3	9.4	9.9	10.3	9.4	9.9	---	---
25	9.8	8.6	9.2	---	---	---	---	---	---	---	9.7	10.1	10.2	9.3	9.8	10.2	9.3	9.8	---	---
26	9.9	8.6	9.2	---	---	---	---	---	---	---	9.6	10.1	10.3	9.8	10.1	10.3	9.8	10.1	---	---
27	9.7	8.9	9.3	---	---	---	---	---	---	---	9.6	10.1	10.3	8.9	10.0	10.3	8.9	10.0	---	---
28	10.3	9.2	9.7	---	---	---	---	---	---	---	9.6	10.1	10.2	8.3	9.7	10.2	8.3	9.7	---	---
29	10.3	9.3	9.9	---	---	---	---	---	---	---	9.8	10.3	10.8	9.4	10.1	10.8	9.4	10.1	---	---
30	---	---	---	---	---	---	---	---	---	---	10.0	10.5	10.3	9.5	10.1	10.3	9.5	10.1	---	---
31	---	---	---	---	---	---	---	---	---	---	8.1	9.0	10.4	10.1	10.3	10.4	10.1	10.3	---	---
MONTH	10.3	7.9	9.1	10.5	7.8	9.1	12.5	8.1	10.3	11.1	8.1	10.3	11.1	8.3	10.0	11.1	8.3	10.0	---	---

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306058 WILLLOW CREEK NEAR RIO BLANCO, CO. STREAM 6273.00 STATE 06 COUNTY 103
 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY												MARCH												APRIL												MAY											
	FEBRUARY			MARCH			APRIL			MAY			FEBRUARY			MARCH			APRIL			MAY			FEBRUARY			MARCH			APRIL			MAY														
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN															
1	10.7	10.2	10.4	11.1	9.8	10.4	10.7	10.1	10.4	11.1	9.8	10.4	10.7	10.1	10.4	11.1	9.8	10.4	10.7	10.1	10.4	11.1	9.8	10.4	10.7	10.1	10.4	11.1	9.8	10.4	10.7	10.1	10.4															
2	11.3	10.6	10.8	10.9	9.5	10.4	10.9	10.3	10.4	10.9	9.5	10.4	10.9	10.3	10.4	10.9	9.5	10.4	10.9	10.3	10.4	10.9	9.5	10.4	10.9	10.3	10.4	10.9	9.5	10.4	10.9	10.3	10.4															
3	11.3	10.0	10.9	10.9	9.4	10.1	10.9	10.1	10.1	10.9	9.4	10.1	10.9	10.1	10.1	10.9	9.4	10.1	10.9	10.1	10.1	10.9	9.4	10.1	10.9	10.1	10.1	10.9	9.4	10.1	10.9	10.1	10.1															
4	11.0	9.7	10.4	10.8	8.8	10.1	10.8	9.9	10.1	10.8	8.8	10.1	10.8	9.9	10.1	10.8	8.8	10.1	10.8	9.9	10.1	10.8	8.8	10.1	10.8	9.9	10.1	10.8	8.8	10.1	10.8	9.9	10.1															
5	10.8	10.0	10.5	10.9	9.4	10.3	10.9	10.2	10.3	10.9	9.4	10.3	10.9	10.2	10.3	10.9	9.4	10.3	10.9	10.2	10.3	10.9	9.4	10.3	10.9	10.2	10.3	10.9	9.4	10.3	10.9	10.2	10.3															
6	10.6	9.7	10.2	11.3	10.4	10.9	11.3	10.6	10.9	11.3	10.4	10.9	11.3	10.6	10.9	11.3	10.4	10.9	11.3	10.6	10.9	11.3	10.4	10.9	11.3	10.6	10.9	11.3	10.4	10.9	11.3	10.6	10.9															
7	10.6	9.7	10.2	10.9	9.7	10.3	10.9	9.7	10.3	10.9	9.7	10.3	10.9	9.7	10.3	10.9	9.7	10.3	10.9	9.7	10.3	10.9	9.7	10.3	10.9	9.7	10.3	10.9	9.7	10.3	10.9	9.7	10.3															
8	10.5	9.6	10.1	10.9	9.3	10.2	10.9	9.3	10.2	10.9	9.3	10.2	10.9	9.3	10.2	10.9	9.3	10.2	10.9	9.3	10.2	10.9	9.3	10.2	10.9	9.3	10.2	10.9	9.3	10.2	10.9	9.3	10.2															
9	10.0	9.0	9.6	10.8	8.7	10.0	10.8	9.6	10.0	10.8	8.7	10.0	10.8	9.6	10.0	10.8	8.7	10.0	10.8	9.6	10.0	10.8	8.7	10.0	10.8	9.6	10.0	10.8	8.7	10.0	10.8	9.6	10.0															
10	10.4	9.5	10.0	10.4	8.8	9.9	10.4	9.5	9.9	10.4	8.8	9.9	10.4	9.5	9.9	10.4	8.8	9.9	10.4	9.5	9.9	10.4	8.8	9.9	10.4	9.5	9.9	10.4	8.8	9.9	10.4	9.5	9.9															
11	10.6	7.2	9.4	11.0	9.7	10.3	11.0	9.7	10.3	11.0	9.7	10.3	11.0	9.7	10.3	11.0	9.7	10.3	11.0	9.7	10.3	11.0	9.7	10.3	11.0	9.7	10.3	11.0	9.7	10.3	11.0	9.7	10.3															
12	10.4	7.6	9.6	10.4	9.3	9.9	10.4	9.3	9.9	10.4	9.3	9.9	10.4	9.3	9.9	10.4	9.3	9.9	10.4	9.3	9.9	10.4	9.3	9.9	10.4	9.3	9.9	10.4	9.3	9.9	10.4	9.3	9.9															
13	10.4	9.5	10.0	9.8	8.8	9.5	9.8	8.8	9.5	9.8	8.8	9.5	9.8	8.8	9.5	9.8	8.8	9.5	9.8	8.8	9.5	9.8	8.8	9.5	9.8	8.8	9.5	9.8	8.8	9.5	9.8	8.8	9.5															
14	10.6	9.7	10.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---														
15	10.4	9.4	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
16	10.4	9.2	9.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
17	10.6	9.5	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
18	10.5	9.5	10.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
19	10.8	9.6	10.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---															
20	10.8	10.3	10.5	9.1	8.0	8.6	9.1	8.0	8.6	9.1	8.0	8.6	9.1	8.0	8.6	9.1	8.0	8.6	9.1	8.0	8.6	9.1	8.0	8.6	9.1	8.0	8.6	9.1	8.0	8.6	9.1	8.0	8.6															
21	10.9	9.8	10.5	9.5	8.9	9.2	9.5	8.9	9.2	9.5	8.9	9.2	9.5	8.9	9.2	9.5	8.9	9.2	9.5	8.9	9.2	9.5	8.9	9.2	9.5	8.9	9.2	9.5	8.9	9.2	9.5	8.9	9.2															
22	10.7	9.7	10.4	9.8	7.7	9.1	9.8	7.7	9.1	9.8	7.7	9.1	9.8	7.7	9.1	9.8	7.7	9.1	9.8	7.7	9.1	9.8	7.7	9.1	9.8	7.7	9.1	9.8	7.7	9.1	9.8	7.7	9.1															
23	11.4	9.3	10.4	9.8	7.9	9.0	9.8	7.9	9.0	9.8	7.9	9.0	9.8	7.9	9.0	9.8	7.9	9.0	9.8	7.9	9.0	9.8	7.9	9.0	9.8	7.9	9.0	9.8	7.9	9.0	9.8	7.9	9.0															
24	11.0	9.3	10.4	9.9	8.6	9.4	9.9	8.6	9.4	9.9	8.6	9.4	9.9	8.6	9.4	9.9	8.6	9.4	9.9	8.6	9.4	9.9	8.6	9.4	9.9	8.6	9.4	9.9	8.6	9.4	9.9	8.6	9.4															
25	11.4	9.8	10.8	10.3	7.9	9.3	10.3	7.9	9.3	10.3	7.9	9.3	10.3	7.9	9.3	10.3	7.9	9.3	10.3	7.9	9.3	10.3	7.9	9.3	10.3	7.9	9.3	10.3	7.9	9.3	10.3	7.9	9.3															
26	11.4	10.1	10.7	9.7	7.8	8.8	9.7	7.8	8.8	9.7	7.8	8.8	9.7	7.8	8.8	9.7	7.8	8.8	9.7	7.8	8.8	9.7	7.8	8.8	9.7	7.8	8.8	9.7	7.8	8.8	9.7	7.8	8.8															
27	11.7	9.1	10.7	9.5	7.3	8.7	9.5	7.3	8.7	9.5	7.3	8.7	9.5	7.3	8.7	9.5	7.3	8.7	9.5	7.3	8.7	9.5	7.3	8.7	9.5	7.3	8.7	9.5	7.3	8.7	9.5	7.3	8.7															
28	11.1	9.4	10.5	9.5	8.6	9.1	9.5	8.6	9.1	9.5	8.6	9.1	9.5	8.6	9.1	9.5	8.6	9.1	9.5	8.6	9.1	9.5	8.6	9.1	9.5	8.6	9.1	9.5	8.6	9.1	9.5	8.6	9.1															
29	---	---	---	9.7	7.2	8.7	9.7	7.2	8.7	9.7	7.2	8.7	9.7	7.2	8.7	9.7	7.2	8.7	9.7	7.2	8.7	9.7	7.2	8.7	9.7	7.2	8.7	9.7	7.2	8.7	9.7	7.2	8.7															
30	---	---	---	9.8	8.0	9.2	9.8	8.0	9.2	9.8	8.0	9.2	9.8	8.0	9.2	9.8	8.0	9.2	9.8	8.0	9.2	9.8	8.0	9.2	9.8	8.0	9.2	9.8	8.0	9.2	9.8	8.0	9.2															
31	---	---	---	10.1	8.4	9.5	10.1	8.4	9.5	10.1	8.4	9.5	10.1	8.4	9.5	10.1	8.4	9.5	10.1	8.4	9.5	10.1	8.4	9.5	10.1	8.4	9.5	10.1	8.4	9.5	10.1	8.4	9.5															
MONTH	11.7	7.2	10.3	11.3	7.2	9.6	11.3	7.2	9.6	11.3	7.2	9.6	11.3	7.2	9.6	11.3	7.2	9.6	11.3	7.2	9.6	11.3	7.2	9.6	11.3	7.2	9.6	11.3	7.2	9.6	11.3	7.2	9.6															

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OH COUNTY 103

STREAM
6273.00

DATUM
48.40

DRAINAGE AREA

NEAR RIO BLANCO, CO.

1081437

WILLOW CREEK

09306058

STATION NUMBER

395014

LATITUDE

LONGITUDE

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	AUGUST			SEPTEMBER		
							MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE												
1	8.5	6.6	7.4	9.3	8.1	8.7						
2	8.7	6.1	7.1	9.3	7.0	8.4						
3	8.1	6.8	7.7	9.8	7.2	8.8						
4	8.9	7.2	8.1	9.8	6.9	8.5						
5	9.2	7.0	8.3	9.8	6.5	8.2						
6	9.5	7.5	8.5	9.4	6.8	8.1						
7	9.7	8.3	9.0	8.9	6.4	7.8						
8	10.1	8.5	9.3	8.8	6.4	7.7						
9	9.9	6.8	8.5	8.5	7.0	7.9						
10	9.0	7.1	8.1	8.6	6.7	7.8						
11	9.3	7.2	8.3	8.5	6.6	7.7						
12	9.5	7.7	8.7	8.6	7.3	8.1						
13	9.8	8.0	9.0	8.8	7.9	8.5						
14	10.2	8.9	9.6	9.0	5.4	8.4						
15	10.8	8.5	9.7	9.1	7.3	8.5						
16	10.9	8.4	9.6	9.6	8.0	8.9						
17	10.3	8.1	9.3	9.5	8.1	8.9						
18	10.2	8.0	9.2	9.8	7.2	8.8						
19	10.0	7.7	8.9	9.8	7.0	8.6						
20	10.1	7.7	8.8	10.0	7.0	8.7						
21	10.0	7.3	8.7	9.6	6.6	8.3						
22	9.8	6.9	8.4	9.0	6.4	7.9						
23	9.4	7.6	8.5	8.9	6.9	8.1						
24	9.3	6.7	8.1	9.3	7.3	8.5						
25	9.3	6.9	8.0	9.2	7.2	8.4						
26	8.7	6.1	7.6	9.2	7.7	8.6						
27	8.5	6.9	7.6	9.6	7.3	8.7						
28	8.3	6.7	7.7	9.6	7.8	9.1						
29	8.7	6.6	7.7	---	---	---						
30	9.2	6.8	7.5	---	---	---						
31	---	---	---	---	---	---						
MONTH	10.9	6.1	8.4	10.0	5.4	8.4						

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 3950140930605A WILLOW CREEK NEAR RIO BLANCO, CO.
LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00STREAM
STATE OH COUNTY 103

PM (STANDARD UNITS). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.6	8.4	8.5	---	---	---	---	---	---	8.5	8.4	8.5
2	8.6	8.5	8.5	---	---	---	---	---	---	8.5	8.4	8.5
3	8.6	8.5	8.5	---	---	---	---	---	---	8.5	8.4	8.5
4	8.6	8.5	8.6	8.2	8.0	8.1	---	---	---	8.5	8.4	8.5
5	8.6	8.4	8.5	8.2	8.1	8.1	---	---	---	8.6	8.4	8.5
6	8.5	8.4	8.5	8.3	8.1	8.2	---	---	---	8.6	8.5	8.5
7	8.5	8.4	8.4	8.3	8.1	8.2	---	---	---	8.6	8.5	8.5
8	8.5	8.4	8.4	8.3	8.2	8.2	---	---	---	8.6	8.5	8.5
9	8.4	8.3	8.4	8.3	8.2	8.2	---	---	---	8.6	8.5	8.5
10	8.4	8.3	8.4	8.2	8.1	8.2	---	---	---	8.5	8.5	8.5
11	8.4	8.2	8.3	8.2	8.1	8.2	---	---	---	8.5	8.5	8.5
12	8.3	8.2	8.3	---	---	---	---	---	---	8.6	8.5	8.5
13	8.3	8.2	8.2	---	---	---	---	---	---	8.6	8.5	8.5
14	8.3	8.2	8.2	---	---	---	---	---	---	8.6	8.5	8.5
15	8.3	8.2	8.3	---	---	---	---	---	---	8.5	8.5	8.5
16	8.3	8.1	8.2	---	---	---	8.5	8.4	8.4	8.6	8.5	8.5
17	8.2	8.1	8.1	---	---	---	8.4	8.2	8.3	8.5	8.5	8.5
18	8.2	8.0	8.1	---	---	---	8.3	8.2	8.3	8.6	8.5	8.5
19	8.1	8.0	8.1	---	---	---	8.3	8.2	8.3	8.6	8.5	8.5
20	8.1	8.0	8.0	---	---	---	8.4	8.3	8.3	8.6	8.5	8.5
21	8.1	7.9	8.0	---	---	---	8.4	8.3	8.3	8.6	8.5	8.5
22	8.2	8.0	8.0	---	---	---	8.4	8.3	8.4	8.6	8.5	8.5
23	8.2	8.1	8.1	---	---	---	8.4	8.3	8.4	8.6	8.5	8.5
24	8.2	8.1	8.1	---	---	---	8.4	8.3	8.4	8.6	8.5	8.5
25	8.2	8.1	8.2	---	---	---	8.4	8.3	8.3	8.6	8.5	8.5
26	8.3	8.1	8.2	---	---	---	8.3	8.3	8.3	8.6	8.5	8.5
27	8.3	8.2	8.3	---	---	---	8.3	8.3	8.3	8.5	8.3	8.5
28	8.3	8.2	8.3	---	---	---	8.3	8.3	8.3	8.5	8.3	8.5
29	8.3	8.2	8.3	---	---	---	8.3	8.2	8.3	8.6	8.3	8.5
30	---	---	---	---	---	---	8.6	8.2	8.4	8.6	8.4	8.5
31	---	---	---	---	---	---	8.5	8.4	8.5	8.5	8.5	8.5
MONTH	8.6	7.9	8.3	8.3	8.0	8.2	8.6	8.2	8.3	8.6	8.3	8.5

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE 08 COUNTY 103

STREAM
6273.00

DATUM 48.40

WILLLOW CREEK NEAR RIO BLANCO, CO.
DRAINAGE AREA 1081437

STATION NUMBER 09306059
LONGITUDE 1081437

LATITUDE 395014

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	8.0	8.1	8.3	8.3	8.3						
2	8.2	8.0	8.1	8.3	8.3	8.3						
3	8.1	8.1	8.1	8.3	8.3	8.3						
4	8.1	8.0	8.0	8.3	8.3	8.3						
5	8.1	8.0	8.0	8.3	8.2	8.3						
6	8.1	7.9	8.0	8.3	8.3	8.3						
7	8.0	8.0	8.0	8.3	8.2	8.3						
8	8.1	7.9	8.0	8.3	8.2	8.3						
9	8.1	8.0	8.0	8.4	8.3	8.3						
10	8.1	8.0	8.0	8.4	8.3	8.3						
11	8.1	8.0	8.1	8.4	8.1	8.3						
12	8.1	8.0	8.1	8.4	8.2	8.4						
13	8.2	8.0	8.1	8.3	8.3	8.3						
14	8.2	8.1	8.2	8.3	8.3	8.3						
15	8.2	8.1	8.1	8.4	8.3	8.3						
16	8.2	8.0	8.1	8.4	8.3	8.4						
17	---	---	---	8.4	8.3	8.4						
18	---	---	---	8.5	8.3	8.4						
19	---	---	---	8.4	8.3	8.4						
20	---	---	---	8.4	8.3	8.4						
21	---	---	---	8.4	8.3	8.3						
22	---	---	---	8.4	8.3	8.3						
23	---	---	---	8.5	8.3	8.4						
24	---	---	---	8.4	8.4	8.4						
25	---	---	---	8.4	8.4	8.4						
26	8.3	8.2	8.3	8.4	8.4	8.4						
27	8.3	8.3	8.3	8.4	8.4	8.4						
28	8.3	8.3	8.3	8.4	8.3	8.4						
29	8.3	8.3	8.3	---	---	---						
30	8.4	8.1	8.3	---	---	---						
31	---	---	---	---	---	---						
MONTH	8.4	7.9	8.1	8.5	8.1	8.3						
YEAR	8.6	7.9	8.3									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306061 PISCANCE CREEK AR HUNTER C. NEAR RIO BLANCO, CO. STREAM 6214.00 STATE 08 COUNTY 103
 LATITUDE 395102 LONGITUDE 1041530 DRAINAGE AREA 309.00 DATUM

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.0	4.0	7.0	6.5	3.5	4.5	6.0	1.0	3.5
2	15.0	6.0	10.5	10.0	4.5	7.0	6.5	3.5	5.0	7.0	2.0	4.5
3	15.5	5.5	9.5	9.0	4.0	6.5	8.5	5.5	6.5	7.0	2.5	4.5
4	15.5	5.5	10.0	11.5	4.5	7.5	8.5	5.5	6.5	7.0	3.0	5.0
5	15.5	6.0	10.0	11.5	4.5	7.5	7.5	5.0	6.0	5.5	3.5	4.0
6	16.0	6.0	10.5	10.5	5.0	7.0	8.5	4.0	5.5	5.0	1.5	3.0
7	15.5	6.0	10.0	11.5	6.0	8.0	6.0	4.0	5.0	4.0	.0	1.5
8	15.5	6.0	10.0	11.0	5.0	7.5	5.5	1.5	4.0	4.5	.0	1.5
9	15.0	6.0	9.5	11.0	5.0	7.5	4.0	1.0	2.0	4.0	.0	1.5
10	14.0	5.5	8.5	10.5	4.5	7.0	4.0	.5	1.5	5.0	.0	2.0
11	14.0	3.5	9.0	9.5	4.0	7.0	5.5	.5	2.5	4.0	.0	1.5
12	11.5	7.0	9.0	10.0	7.0	8.5	5.0	1.0	2.5	4.0	.0	1.5
13	15.5	9.0	11.5	8.5	5.5	6.5	4.0	.5	2.0	3.5	.0	1.0
14	12.5	8.0	9.5	6.5	4.0	5.0	4.5	.5	2.0	4.0	.0	1.0
15	10.0	6.5	8.0	6.0	2.0	3.5	6.5	1.5	3.5	5.0	.0	2.0
16	9.0	5.0	7.0	5.0	1.5	3.0	7.0	2.0	4.5	4.0	.0	2.0
17	9.5	6.5	7.5	5.0	1.0	3.0	7.5	2.5	5.0	5.5	2.0	3.5
18	10.5	6.5	8.0	5.0	.5	3.0	7.5	3.0	5.0	5.5	.5	3.0
19	12.0	5.0	8.0	6.0	1.5	3.5	6.0	3.0	4.5	5.5	.0	2.5
20	12.5	5.0	8.5	6.0	2.0	3.5	7.0	2.0	4.0	5.5	.5	2.5
21	13.0	5.0	8.5	6.0	1.5	3.5	7.5	2.5	4.5	5.5	.0	2.0
22	12.0	6.0	8.0	6.0	2.5	4.5	9.0	4.5	6.0	5.5	.0	2.5
23	10.0	3.5	6.0	7.0	3.5	5.5	7.0	3.5	5.5	6.0	.0	2.5
24	10.0	2.5	6.0	5.0	4.0	5.0	6.0	2.0	4.0	6.0	1.5	3.5
25	10.5	3.0	6.5	6.0	2.0	4.0	8.0	4.0	5.5	6.0	1.0	3.5
26	7.5	4.5	6.0	5.5	2.0	3.5	8.0	3.5	5.5	4.0	.5	2.0
27	7.0	5.0	6.0	4.0	.5	2.5	8.0	3.5	5.5	5.0	1.0	3.0
28	8.0	3.0	5.0	7.0	2.5	4.5	7.5	4.0	5.5	6.5	3.5	5.0
29	10.0	3.0	6.0	7.5	3.0	4.0	6.5	2.0	4.0	7.5	3.5	5.0
30	10.5	3.5	6.5	7.0	4.5	5.5	6.5	1.5	3.5	4.5	2.0	3.0
31	11.5	4.0	7.0	---	---	---	6.5	1.5	3.5	3.0	.5	1.5
MONTH	16.0	2.5	8.0	11.5	.5	5.5	8.5	.5	4.5	7.5	.0	2.5

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306061 PICEANCE CREEK AR HUNTER C. NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE OH COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY												MARCH												APRIL												MAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	MAX				MTN				MEAN				MAX				MIN				MEAN				MAX				MIN				MEAN				MAX				MIN				MEAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OR COUNTY 103

STRTAM
6214.00

DATUM
309.00

NEAR RIO BLANCO, CO.

PIEDMONT CREEK AR HUNTER C.

09106041

LONGITUDE 1081530

STATION NUMBER 395102

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	AUGUST			SEPTEMBER		
							MAX	MIN	MEAN	MAX	MIN	MEAN
JULY												
1	22.0	7.5	14.0	17.0	13.5	15.0						
2	23.5	7.5	14.0	22.0	12.5	17.0						
3	16.0	9.0	12.0	22.0	10.5	16.0						
4	22.5	8.5	15.0	25.0	10.0	17.0						
5	24.0	7.5	15.0	26.0	10.5	18.0						
6	24.0	8.0	16.0	25.5	11.5	18.0						
7	23.0	10.0	16.0	25.0	11.5	18.0						
8	24.5	9.0	16.0	25.5	12.5	18.5						
9	24.0	9.5	16.0	21.0	12.0	16.0						
10	25.0	9.5	16.0	23.0	12.0	17.0						
11	24.0	9.0	16.0	23.5	12.5	17.5						
12	23.5	8.5	15.5	22.0	13.5	16.5						
13	21.0	8.0	13.5	21.5	14.0	17.0						
14	16.0	6.5	10.5	26.0	13.5	18.5						
15	20.0	5.0	11.5	25.0	11.5	18.0						
16	21.5	5.5	12.5	17.5	12.0	15.0						
17	21.5	7.5	14.0	17.5	12.0	14.5						
18	21.5	7.5	13.5	22.5	11.0	16.0						
19	22.5	7.5	14.5	23.5	11.0	17.0						
20	22.5	8.5	15.0	24.0	9.5	16.5						
21	22.5	9.0	15.0	24.0	10.0	16.5						
22	24.5	8.5	15.5	23.5	10.5	16.5						
23	19.5	9.0	14.5	23.0	10.0	15.5						
24	24.5	10.0	16.5	21.5	11.5	16.0						
25	23.5	10.0	16.5	24.5	12.0	17.0						
26	25.5	12.0	17.5	22.0	12.0	16.0						
27	22.5	13.0	17.0	23.5	9.5	15.5						
28	21.5	13.0	16.5	---	---	---						
29	22.5	11.5	17.0	---	---	---						
30	25.0	11.0	17.5	---	---	---						
31	---	---	---	---	---	---						
MONTH	25.5	5.0	15.0	26.0	9.5	16.5						

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 30510209306061
LONGITUDE 1081530SOURCE AGENCY USGS
STATE OR COUNTY 103PICANCE CREEK AR HUNTER C, NEAR RIO PLANCO, CO.
DRAINAGE AREA 309.00 DATUM 6214.00

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN
1	---	---	---	1420	1390	1400	1300	1280	1300	1280	1300	1290	1270	1280	1270	1280
2	1300	1240	1280	1420	1390	1410	1310	1290	1300	1290	1300	1240	1260	1270	1260	1270
3	1310	1240	1280	1430	1400	1410	1300	1280	1300	1280	1300	1240	1260	1270	1260	1270
4	1320	1280	1300	1420	1380	1410	1310	1280	1300	1280	1290	1290	1270	1280	1270	1280
5	1320	1290	1300	1420	1380	1400	1300	1270	1300	1270	1290	1240	1230	1240	1230	1240
6	1350	1300	1320	1420	1370	1380	1300	1280	1300	1280	1280	1310	1270	1290	1270	1290
7	1360	1300	1330	1400	1370	1380	1300	1270	1300	1270	1290	1360	1240	1310	1240	1310
8	1340	1310	1320	1400	1360	1380	1310	1240	1300	1240	1290	1340	1240	1310	1240	1310
9	1340	1320	1340	1410	1380	1400	1320	1270	1320	1270	1290	1350	1240	1300	1240	1300
10	1370	1330	1350	1410	1320	1390	1400	1250	1400	1250	1320	1340	1250	1300	1250	1300
11	1410	1360	1320	1390	1360	1370	1350	1250	1350	1250	1300	1390	1240	1310	1240	1310
12	1400	1370	1380	1380	1270	1340	1330	1240	1300	1240	1300	1400	1230	1320	1230	1320
13	1420	1390	1400	1340	1260	1300	1360	1240	1300	1240	1300	1420	1240	1330	1240	1330
14	1430	1370	1400	1320	1300	1310	1350	1230	1300	1230	1300	1410	1240	1300	1240	1300
15	1430	1360	1410	1320	1310	1320	1300	1270	1300	1270	1290	1360	1260	1300	1260	1300
16	1420	1380	1400	1350	1310	1320	1290	1240	1290	1240	1280	1350	1260	1300	1260	1300
17	1430	1400	1420	1340	1290	1320	1300	1260	1300	1260	1280	1310	1290	1300	1290	1300
18	1440	1400	1420	1360	1280	1320	1280	1240	1280	1240	1270	1320	1240	1300	1240	1300
19	1430	1390	1410	1340	1300	1320	1240	1260	1240	1260	1290	1350	1270	1320	1270	1320
20	1430	1390	1410	1330	1310	1320	1300	1270	1300	1270	1290	1340	1270	1310	1270	1310
21	1420	1380	1400	1340	1290	1320	1290	1240	1290	1240	1240	1410	1250	1310	1250	1310
22	1430	1370	1400	1320	1310	1320	1290	1260	1290	1260	1270	1350	1240	1300	1240	1300
23	1420	1390	1400	1320	1310	1310	1280	1250	1280	1250	1260	1360	1260	1310	1260	1310
24	1430	1400	1420	1310	1290	1300	1290	1270	1290	1270	1280	1320	1290	1310	1290	1310
25	1410	1380	1400	1320	1300	1310	1300	1270	1300	1270	1280	1310	1290	1300	1290	1300
26	1430	1400	1420	1330	1300	1310	1290	1240	1290	1240	1280	1410	1230	1320	1230	1320
27	1440	1390	1430	1350	1270	1320	1280	1250	1280	1250	1270	1320	1280	1310	1280	1310
28	1430	1400	1420	1320	1280	1300	1290	1240	1290	1240	1280	1370	1280	1330	1280	1330
29	1430	1390	1410	1310	1280	1290	1290	1260	1290	1260	1280	1340	1340	1360	1340	1360
30	1430	1390	1410	1300	1280	1290	1290	1270	1290	1270	1280	1370	1340	1360	1340	1360
31	1420	1390	1400	---	---	---	1290	1240	1290	1240	1280	1340	1320	1350	1320	1350
MONTH	1440	1260	1380	1430	1260	1340	1400	1230	1400	1230	1290	1420	1230	1310	1230	1310

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306061 PICFANCE CREEK AR HUNTER C. NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
 LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1390	1340	1350	1420	1340	1380	1310	1270	1290	1450	1390	1400
2	1580	1280	1430	1450	1360	1410	1300	1250	1280	1440	1400	1420
3	1510	1280	1400	1440	1360	1410	1290	1170	1220	1430	1240	1340
4	1450	1290	1370	1400	1350	1380	1250	1210	1230	1430	1280	1390
5	1510	1280	1390	1450	1360	1400	1350	1230	1280	1490	1390	1440
6	1460	1280	1360	1410	1220	1320	1290	1240	1260	1470	1320	1370
7	1440	1240	1340	1330	1270	1300	1310	1170	1220	1570	1480	1540
8	1470	1240	1360	1380	1290	1330	1230	1190	1200	1570	1530	1550
9	1390	1240	1370	1350	1310	1320	1290	1220	1250	1590	1370	1520
10	1390	1290	1340	1360	1250	1320	1320	1250	1290	1430	1350	1390
11	---	---	---	1350	1260	1310	1330	1240	1290	1400	1340	1360
12	---	---	---	1350	1300	1320	1370	1310	1340	1440	1350	1390
13	---	---	---	1350	1290	1310	1420	1350	1370	1430	1370	1400
14	---	---	---	1350	1300	1320	1460	1400	1430	1450	1400	1440
15	---	---	---	1350	1290	1310	1470	1410	1450	1450	1400	1430
16	---	---	---	1360	1290	1320	1480	1410	1450	1460	1370	1420
17	---	---	---	1290	1270	1280	---	---	---	1410	1350	1390
18	---	---	---	1330	1290	1310	---	---	---	1480	1350	1430
19	---	---	---	1350	1290	1310	---	---	---	1510	1460	1490
20	---	---	---	1340	1290	1320	---	---	---	1530	1490	1510
21	---	---	---	1340	1280	1300	1590	1550	1560	1590	1510	1560
22	---	---	---	1360	1290	1320	1600	1550	1580	1590	1570	1580
23	---	---	---	1360	1290	1310	1610	1560	1590	1590	1550	1580
24	---	---	---	1320	1270	1300	1620	1560	1590	1560	1540	1560
25	1330	1240	1300	1360	1280	1320	1610	1550	1580	1550	1510	1540
26	1350	1270	1300	1330	1290	1310	1590	1550	1570	1550	1500	1540
27	1380	1320	1350	1310	1230	1260	---	---	---	1550	1520	1530
28	1400	1330	1350	1290	1230	1260	---	---	---	1540	1490	1520
29	---	---	---	1320	1270	1290	---	---	---	1540	1500	1520
30	---	---	---	1290	1190	1250	1420	1360	1390	1540	1480	1510
31	---	---	---	1330	1230	1290	---	---	---	1530	1470	1500
MONTH	1580	1240	1360	1450	1190	1320	1620	1170	1380	1590	1240	1470

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 30510209306061
LONGITUDE 1041530PISCANCE CREEK AR HUNTER C. NEAR RIO BLANCO, CO.
DRAINAGE AREA 309.00 DATUM 6214.00SOURCE AGENCY USGS
STATE OH COUNTY 103

OXYGEN, DISSOLVED (OO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	---	---	---	10.2	7.9	9.0	---	---	---	---	---	11.1	9.0	9.9	---	---
2	10.6	8.5	9.5	10.1	8.1	9.0	---	---	---	---	---	10.9	8.6	10.0	---	---
3	10.6	7.9	9.4	10.3	8.1	9.0	---	---	---	---	---	10.7	8.6	9.4	---	---
4	10.5	7.8	9.0	10.3	7.9	8.9	---	---	---	---	---	10.3	8.3	9.2	---	---
5	10.8	7.6	9.0	10.4	7.8	8.9	---	---	---	---	---	10.2	8.6	8.7	---	---
6	11.0	7.3	9.0	10.4	8.2	9.1	---	---	---	---	---	11.2	8.9	9.7	---	---
7	11.3	7.1	8.8	10.4	8.0	9.0	---	---	---	---	---	11.2	9.6	10.2	---	---
8	11.6	6.9	8.6	10.3	8.2	9.0	10.3	9.4	---	---	9.8	10.9	9.7	10.3	---	---
9	11.8	7.0	8.6	10.6	8.2	9.2	10.9	9.8	10.3	10.3	10.3	10.9	9.7	10.4	---	---
10	12.0	7.0	8.5	10.7	8.0	9.2	10.9	9.9	10.4	10.4	10.4	11.0	9.5	10.2	---	---
11	11.5	7.6	8.5	10.2	8.2	9.1	10.9	9.6	10.2	10.2	10.2	11.1	9.8	10.4	---	---
12	11.0	6.6	8.0	9.7	8.0	8.6	10.9	9.6	10.2	10.2	10.2	10.9	9.7	10.4	---	---
13	10.9	5.9	7.8	9.2	8.4	8.9	11.0	9.8	10.4	10.4	10.4	10.8	9.7	10.4	---	---
14	10.6	5.9	9.7	9.8	9.1	9.4	10.9	9.7	10.3	10.3	10.3	10.6	9.2	10.3	---	---
15	10.5	6.3	7.9	10.4	9.2	9.8	10.9	9.3	10.1	10.1	10.1	10.7	9.5	10.2	---	---
16	11.1	6.7	8.0	10.4	9.5	10.0	10.8	9.1	9.9	9.9	9.9	10.9	9.6	10.2	---	---
17	11.2	6.8	8.1	10.6	9.5	10.0	10.6	8.9	9.7	9.7	9.7	10.7	9.4	10.0	---	---
18	11.4	6.8	8.4	10.5	9.4	10.0	10.6	8.9	9.7	9.7	9.7	11.0	9.4	10.1	---	---
19	11.4	6.6	8.4	10.4	9.2	9.9	10.8	9.2	9.8	9.8	9.8	10.9	9.4	10.1	---	---
20	11.6	6.6	8.3	10.4	9.1	9.8	11.0	9.1	10.0	10.0	10.0	10.7	9.4	10.1	---	---
21	13.2	7.1	8.9	10.3	9.1	9.7	10.8	9.0	9.9	9.9	9.9	11.0	9.6	10.4	---	---
22	13.1	7.7	9.5	9.8	8.9	9.4	10.7	8.7	9.5	9.5	9.5	11.0	9.5	10.3	---	---
23	13.1	8.0	9.8	9.7	8.6	9.1	10.8	9.1	9.6	9.6	9.6	11.0	9.4	10.2	---	---
24	13.2	7.9	9.9	9.3	8.8	9.0	11.3	9.2	10.1	10.1	10.1	10.6	9.2	9.9	---	---
25	12.9	7.6	9.6	10.1	8.7	9.4	10.9	8.8	9.6	9.6	9.6	10.7	9.4	10.0	---	---
26	12.5	7.5	9.1	9.9	8.8	9.3	11.1	8.8	9.7	9.7	9.7	10.7	9.8	10.3	---	---
27	11.0	7.7	8.7	9.9	8.8	9.3	11.1	8.7	9.7	9.7	9.7	10.7	9.5	10.1	---	---
28	10.3	8.6	9.3	---	---	---	10.9	8.8	9.7	9.7	9.7	10.1	8.7	9.4	---	---
29	10.4	8.3	9.2	---	---	---	11.2	9.1	10.0	10.0	10.0	9.9	8.7	9.3	---	---
30	10.3	8.0	9.1	---	---	---	11.1	9.0	9.9	9.9	9.9	10.0	9.4	9.7	---	---
31	10.2	8.0	9.0	---	---	---	11.0	8.9	9.8	9.8	9.8	10.5	9.8	10.1	---	---
MONTH	13.2	5.9	8.9	10.7	7.8	9.3	11.3	8.7	9.9	9.9	9.9	11.2	8.3	10.0	---	---

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09106061 PICFANCE CREEK AB HUNTER C. NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS
 LATITUDE 395102 LONGITUDE 1041530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE OR COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	9.7	10.2	10.5	9.2	9.8	10.2	7.7	9.2	10.0	5.7	7.8
2	10.6	10.0	10.4	10.4	9.0	9.8	10.0	7.4	8.7	9.9	6.2	7.7
3	10.6	9.9	10.4	10.5	8.9	9.7	9.9	8.4	9.1	9.0	6.7	7.7
4	10.6	9.6	10.2	10.4	9.6	9.6	10.1	8.7	9.5	9.4	6.1	8.0
5	10.6	9.8	10.3	11.9	9.6	10.4	10.6	7.8	9.4	9.2	6.2	7.7
6	10.5	9.6	10.1	12.0	10.6	11.3	10.0	7.2	8.6	8.9	6.3	7.5
7	10.6	9.7	10.3	11.7	10.1	11.0	9.0	8.2	8.6	9.0	6.9	7.8
8	10.6	9.4	10.0	11.9	9.7	10.9	9.4	7.9	8.7	9.3	7.3	8.2
9	10.0	8.8	9.5	11.9	9.2	10.7	9.6	7.0	8.4	9.7	6.6	8.0
10	10.5	9.4	10.1	11.8	9.2	10.6	9.4	6.9	8.2	9.2	6.6	7.9
11	---	---	---	11.8	10.1	11.0	9.4	7.0	8.2	8.6	7.4	7.9
12	---	---	---	11.0	9.6	10.3	9.5	7.4	8.4	9.1	7.3	8.1
13	---	---	---	11.5	9.4	10.5	9.2	7.2	8.2	9.2	6.4	7.9
14	---	---	---	11.4	8.9	10.2	9.8	7.3	8.5	8.8	6.4	7.6
15	---	---	---	11.3	8.7	10.1	9.4	7.2	8.4	8.6	6.9	7.6
16	---	---	---	11.2	8.9	10.0	9.9	7.5	8.6	8.6	7.2	7.8
17	---	---	---	10.9	9.3	10.1	---	---	---	8.7	7.5	8.1
18	---	---	---	11.0	8.8	10.0	---	---	---	8.8	6.7	7.8
19	---	---	---	10.8	8.5	9.7	---	---	---	8.8	7.6	8.2
20	---	---	---	10.0	8.9	9.4	---	---	---	8.9	7.6	8.2
21	---	---	---	10.4	9.3	9.8	11.7	6.9	9.6	8.9	7.4	8.3
22	---	---	---	10.8	8.5	9.8	12.7	6.4	9.2	8.5	7.1	7.7
23	---	---	---	10.5	8.2	9.3	12.5	5.6	8.8	8.2	6.4	7.4
24	---	---	---	10.3	9.0	9.7	11.8	5.8	8.6	8.3	6.4	7.4
25	9.9	8.8	9.3	10.7	8.0	9.4	12.2	6.0	8.7	8.6	6.3	7.4
26	10.5	9.5	10.1	10.0	7.8	8.9	11.7	5.8	8.5	8.8	6.1	7.3
27	10.5	8.6	9.7	9.4	7.9	8.8	---	---	---	9.9	5.8	7.5
28	10.7	8.6	9.7	9.9	9.1	9.4	---	---	---	10.9	5.4	7.7
29	---	---	---	10.1	7.5	9.0	---	---	---	12.1	5.6	8.3
30	---	---	---	10.1	8.8	9.6	9.7	5.9	8.0	12.2	5.3	8.6
31	---	---	---	10.7	8.1	9.6	---	---	---	12.4	5.4	7.9
MONTH	10.7	8.6	10.0	12.0	7.5	10.0	12.7	5.6	8.7	12.4	5.3	7.8

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39510209306061
LONGITUDE 1041530PICFANCE CREEK AR HUNTER C. NEAR RIO BLANCO, CO. SIFAM
DRAINAGE AREA 309.00 DATUM 4214.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
												SEPTEMBER
												AUGUST
												JULY
												JUNE
1	12.7	5.1	8.5	9.4	6.1	7.7						
2	13.5	5.4	8.5	9.8	6.1	7.8						
3	12.8	6.2	8.9	9.7	6.3	7.8						
4	14.9	6.1	9.7	9.7	5.6	7.7						
5	14.1	6.2	9.6	9.1	5.3	7.3						
6	12.9	6.4	9.4	9.2	5.5	7.4						
7	12.6	7.0	9.4	10.0	5.2	7.5						
8	12.5	7.4	9.7	10.5	5.7	7.9						
9	12.4	7.4	9.4	11.0	6.2	9.1						
10	12.3	6.3	8.9	11.0	6.3	8.3						
11	11.3	6.8	9.0	10.7	6.5	8.2						
12	13.3	7.0	9.8	11.1	6.9	8.5						
13	13.9	7.4	10.1	11.7	7.1	9.1						
14	13.3	7.7	10.3	11.5	7.6	9.1						
15	12.6	7.5	10.1	12.6	7.6	9.3						
16	13.3	7.0	10.1	10.7	5.0	6.9						
17	14.4	6.8	10.2	11.1	5.7	7.8						
18	12.2	6.6	9.2	9.2	5.2	7.6						
19	12.4	6.8	9.6	10.7	5.9	8.2						
20	12.9	6.5	9.5	---	---	---						
21	12.4	6.6	9.3	9.6	5.8	8.0						
22	12.2	6.5	9.1	8.8	6.2	7.7						
23	10.9	6.8	8.7	---	---	---						
24	10.6	6.5	8.5	9.5	6.5	7.8						
25	10.6	7.0	8.3	---	---	---						
26	10.7	6.0	8.2	---	---	---						
27	10.7	6.1	7.9	10.0	6.6	9.0						
28	9.3	6.0	7.4	---	---	---						
29	9.8	5.8	7.7	---	---	---						
30	10.0	5.8	7.0	---	---	---						
31	---	---	---	---	---	---						
MONTH	14.9	5.1	9.1	12.6	5.0	8.0						
YEAR	14.9	5.0	9.1									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE IS 12-22-91

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OR COUNTY 103

09306061 PICEANCE CREEK AR HUNTER C, NEAR RIO BLANCO, CO. STREAM
LONGITUDE 1041530 DRAINAGE AREA 309.00 DATUM A214.00

STATION NUMBER
LATITUDE 395102

P4 (STANDARD UNITS). WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MAX	MIN	MEAN	NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.2	9.1	8.1	8.5	8.4	8.4	8.5	8.4	8.4
2	8.6	8.4	8.5	8.2	8.1	8.1	8.5	8.4	8.4	8.5	8.4	8.4
3	8.5	8.4	8.4	8.2	8.1	8.1	8.5	8.4	8.4	8.5	8.4	8.4
4	8.4	8.3	8.3	8.3	8.1	8.1	8.5	8.4	8.4	8.5	8.4	8.4
5	8.4	8.3	8.3	8.3	8.1	8.1	8.5	8.4	8.4	8.5	8.4	8.4
6	8.4	8.2	8.3	8.4	8.2	8.3	8.5	8.4	8.4	8.5	8.4	8.5
7	8.4	8.3	8.3	8.4	8.2	8.3	8.5	8.4	8.4	8.5	8.4	8.5
8	8.4	8.2	8.2	8.4	8.2	8.3	8.5	8.4	8.4	8.5	8.4	8.5
9	8.4	8.1	8.2	8.4	8.2	8.3	8.5	8.3	8.4	8.5	8.4	8.5
10	8.3	8.1	8.2	8.4	8.2	8.3	8.4	8.3	8.3	8.5	8.4	8.5
11	8.3	8.1	8.2	8.4	8.3	8.3	8.4	8.3	8.3	8.5	8.4	8.5
12	8.3	8.0	8.1	8.3	8.2	8.3	8.4	8.3	8.3	8.5	8.4	8.5
13	8.3	8.0	8.1	8.3	8.3	8.3	8.3	8.2	8.3	8.5	8.4	8.5
14	8.2	7.9	8.0	8.4	8.3	8.3	8.3	8.2	8.3	8.5	8.4	8.5
15	8.2	7.9	8.0	8.4	8.3	8.3	8.3	8.2	8.2	8.5	8.5	8.5
16	8.1	7.9	8.0	8.4	8.4	8.4	8.3	8.2	8.2	8.5	8.5	8.5
17	8.1	7.9	8.0	8.4	8.4	8.4	8.3	8.2	8.2	8.5	8.5	8.5
18	8.2	7.9	8.0	8.4	8.3	8.4	8.3	8.2	8.3	8.6	8.5	8.5
19	8.2	7.9	8.0	8.4	8.4	8.4	8.3	8.2	8.3	8.5	8.5	8.5
20	8.2	7.9	8.0	8.4	8.4	8.4	8.3	8.2	8.3	8.5	8.5	8.5
21	8.2	7.9	8.0	8.4	8.4	8.4	8.4	8.2	8.3	8.5	8.4	8.5
22	8.2	7.9	8.0	8.4	8.3	8.4	8.4	8.2	8.3	8.5	8.5	8.5
23	8.2	7.9	8.0	8.4	8.4	8.4	8.3	8.2	8.3	8.5	8.5	8.5
24	8.2	7.9	8.0	8.4	8.4	8.4	8.4	8.3	8.3	8.5	8.5	8.5
25	8.3	7.9	8.0	8.4	8.4	8.4	8.4	8.3	8.3	8.5	8.5	8.5
26	8.2	7.9	8.0	8.4	8.4	8.4	8.4	8.2	8.3	8.5	8.4	8.5
27	8.1	7.9	8.0	8.4	8.4	8.4	8.4	8.3	8.3	8.5	8.5	8.5
28	8.1	7.9	8.0	8.5	8.4	8.4	8.4	8.3	8.3	8.5	8.5	8.5
29	8.2	8.0	8.1	8.5	8.4	8.4	8.4	8.3	8.4	8.5	8.5	8.5
30	8.2	8.0	8.1	8.5	8.4	8.4	8.5	8.3	8.4	8.5	8.5	8.5
31	8.2	8.1	8.1	---	---	---	8.4	8.3	8.4	8.5	8.5	8.5
MONTH	8.6	7.9	8.1	8.5	8.1	8.3	8.5	8.2	8.3	8.6	8.4	8.5

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE 08 COUNTY 103

STREAM
6214.00

CO. BLANCO, RIO
DATU4 309.00

PICEANCE CREEK
DRAINAGE AREA 1081530

09306061
LONGITUDE 1081530

STATION NUMBER
LATITUDE 395102

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY				MARCH				APRIL				MAY			
	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN	
1	8.6	8.5	8.5		8.6	8.5	8.5		8.3	8.2	8.3		8.5	8.4	8.4	
2	8.5	8.4	8.4		8.5	8.4	8.5		8.3	8.2	8.3		8.5	8.4	8.4	
3	8.5	8.4	8.5		8.6	8.5	8.5		8.3	8.2	8.3		8.5	8.3	8.4	
4	8.5	8.4	8.5		8.6	8.4	8.5		8.3	8.2	8.3		8.4	8.3	8.4	
5	8.5	8.4	8.5		8.5	8.2	8.4		8.4	8.2	8.3		8.3	8.3	8.3	
6	8.5	8.5	8.5		8.3	8.2	8.2		8.3	8.2	8.3		8.3	8.2	8.2	
7	8.5	8.4	8.4		8.3	8.2	8.2		8.3	8.1	8.2		8.2	8.0	8.1	
8	8.5	8.4	8.4		8.3	8.2	8.2		8.3	8.2	8.3		8.2	8.0	8.1	
9	8.5	8.4	8.4		8.3	8.0	8.2		8.3	8.3	8.3		8.3	8.0	8.1	
10	8.5	8.4	8.5		8.4	8.2	8.3		8.3	8.3	8.3		8.3	8.1	8.2	
11	---	---	---		8.4	8.3	8.3		8.4	8.2	8.3		8.2	8.1	8.2	
12	---	---	---		8.4	8.3	8.3		8.3	8.3	8.3		8.2	8.1	8.2	
13	---	---	---		8.4	8.3	8.4		8.3	8.2	8.3		8.2	8.1	8.2	
14	---	---	---		8.4	8.3	8.4		8.3	8.2	8.3		8.3	8.1	8.2	
15	---	---	---		8.4	8.3	8.3		8.3	8.2	8.2		8.3	8.2	8.2	
16	---	---	---		8.4	8.3	8.3		8.3	8.2	8.2		8.3	8.2	8.2	
17	---	---	---		8.4	8.3	8.3		---	---	---		8.3	8.1	8.2	
18	---	---	---		8.4	8.3	8.4		---	---	---		8.3	8.1	8.2	
19	---	---	---		8.4	8.2	8.3		---	---	---		8.3	8.2	8.2	
20	---	---	---		8.4	8.2	8.3		---	---	---		8.2	8.1	8.1	
21	---	---	---		8.4	8.3	8.3		8.5	8.1	8.3		8.1	8.0	8.0	
22	---	---	---		8.4	8.3	8.3		8.4	8.0	8.2		8.0	7.9	7.9	
23	---	---	---		8.4	8.2	8.3		8.3	8.0	8.1		8.0	7.9	8.0	
24	---	---	---		8.4	8.3	8.3		8.3	8.0	8.1		8.1	7.9	8.0	
25	8.6	8.5	8.6		8.3	8.3	8.3		8.3	8.0	8.1		8.1	7.9	8.0	
26	8.6	8.4	8.5		8.3	8.2	8.3		8.3	8.0	8.1		8.1	8.0	8.0	
27	8.6	8.4	8.5		8.3	8.2	8.2		---	---	---		8.2	7.9	8.0	
28	8.6	8.4	8.5		8.3	8.3	8.3		---	---	---		8.2	8.0	8.1	
29	---	---	---		8.3	8.2	8.3		---	---	---		8.3	8.0	8.1	
30	---	---	---		8.4	8.3	8.3		8.5	8.4	8.4		8.3	8.0	8.1	
31	---	---	---		8.4	8.3	8.4		---	---	---		8.3	8.0	8.1	
MONTH	8.6	8.4	8.5		8.4	8.0	8.3		8.5	8.0	8.3		8.5	7.9	8.2	

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

SOURCE AGENCY USGS
STATE OR COUNTY 103

09306061 PICEANCE CREEK AR HUNTER C. NEAR RIO BLANCO, CO. STRFAM
LONGITUDE 1041530 DRAINAGE AREA 309.00 DATUM 6214.00

STATION NUMBER 305102

PH (STANDARD UNITS). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
												SEPTEMBER
												AUGUST
												JULY
												JUNE
1	8.3	8.0	8.1	8.3	8.1	8.2						
2	8.4	8.1	8.2	8.4	8.1	8.2						
3	8.3	8.0	8.1	8.3	8.1	8.2						
4	8.3	7.9	8.1	8.3	8.1	8.2						
5	8.3	8.0	8.1	8.4	8.2	8.3						
6	8.3	8.1	8.1	8.5	8.2	8.3						
7	8.3	8.1	8.2	8.4	8.1	8.3						
8	8.3	8.1	8.2	8.5	8.2	8.3						
9	8.3	8.1	8.2	8.5	8.1	8.2						
10	8.3	8.1	8.2	8.5	8.1	8.3						
11	8.3	8.1	8.2	8.5	8.1	8.3						
12	8.4	8.1	8.2	8.5	8.0	8.2						
13	8.4	8.1	8.2	8.5	8.1	8.3						
14	8.3	8.1	8.2	8.6	8.1	8.3						
15	8.3	8.0	8.1	8.5	8.1	8.3						
16	8.4	8.1	8.2	8.4	8.1	8.2						
17	8.4	8.1	8.2	8.4	8.1	8.2						
18	8.4	8.2	8.2	8.4	8.0	8.2						
19	8.4	8.2	8.2	8.4	8.1	8.2						
20	8.4	8.2	8.3	8.4	8.1	8.2						
21	8.4	8.2	8.3	8.4	8.1	8.2						
22	8.4	8.2	8.3	8.4	8.1	8.2						
23	8.4	8.2	8.3	8.4	8.0	8.2						
24	8.4	8.2	8.3	8.4	8.1	8.2						
25	8.4	8.2	8.3	8.4	8.0	8.2						
26	8.4	8.2	8.3	8.4	8.1	8.2						
27	8.4	8.2	8.3	8.4	8.1	8.2						
28	8.3	8.2	8.3	---	---	---						
29	8.4	8.2	8.3	---	---	---						
30	8.4	8.2	8.3	---	---	---						
31	---	---	---	---	---	---						
MONTH	8.4	7.9	8.2	8.6	8.0	8.2						
YEAR	8.6	7.9	8.3									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39551609306200 PISCANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO.
LONGITUDE 1081749 DRAINAGE AREA

SIRFAM

SOURCE AGENCY USGS
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.5	3.5	6.5	5.5	2.5	3.5	4.5	.0	2.5
2	---	---	---	9.0	4.0	6.5	5.5	2.0	3.5	5.0	1.0	3.0
3	17.0	11.0	14.5	8.0	3.5	6.0	6.5	4.5	5.5	5.5	2.0	4.0
4	17.0	6.5	11.5	9.5	4.0	7.0	6.5	4.5	5.5	5.5	2.0	4.0
5	17.0	6.5	11.5	10.0	4.0	7.0	5.5	4.0	5.0	5.0	3.0	3.5
6	17.0	7.0	11.5	9.0	4.0	7.0	6.0	2.5	4.5	4.0	1.0	2.5
7	17.0	2.0	11.5	10.0	5.0	7.5	5.0	3.0	4.0	2.5	.0	1.0
8	16.5	7.0	11.5	10.5	5.5	7.5	4.0	1.0	3.0	2.0	.0	.5
9	16.0	6.5	11.0	9.5	3.5	6.5	3.0	.0	1.0	2.5	.0	1.0
10	15.0	6.0	10.5	9.0	3.5	6.5	1.5	.0	.5	3.5	.0	1.5
11	15.0	5.5	10.0	8.5	3.0	6.0	3.0	.0	1.0	2.5	.0	1.0
12	11.5	7.0	9.5	8.5	6.0	7.5	3.0	.0	1.0	2.5	.0	.5
13	15.5	9.0	12.0	8.0	4.5	6.0	2.5	.0	.5	1.5	.0	.5
14	13.0	8.0	10.5	5.5	3.5	4.5	2.0	.0	.5	2.0	.0	.5
15	10.0	7.5	9.0	4.5	1.0	2.5	4.0	.0	2.0	3.5	.0	1.0
16	9.5	6.5	8.0	3.5	.0	2.0	4.5	.5	2.5	3.0	.0	1.0
17	10.0	7.5	8.5	3.5	.0	1.5	5.5	1.0	3.0	4.5	1.0	2.5
18	11.0	7.0	8.5	3.5	.0	1.5	5.5	1.5	4.0	4.5	.0	2.0
19	13.0	5.5	9.0	4.5	.0	2.0	4.5	2.0	3.5	4.0	.0	2.0
20	13.0	5.5	9.0	4.5	.0	2.5	4.5	.5	2.5	4.5	.0	2.0
21	13.0	5.5	9.0	4.5	.0	2.0	5.5	1.5	3.5	4.0	.0	1.5
22	12.5	6.5	8.5	4.5	1.0	3.0	6.5	3.5	5.0	4.0	.0	1.5
23	---	---	---	5.5	2.5	4.0	6.0	3.5	4.5	4.0	.0	1.5
24	---	---	---	4.5	2.5	4.0	4.5	1.0	3.0	5.0	.5	3.0
25	---	---	---	4.0	.5	2.5	6.5	3.0	4.5	4.5	.5	2.5
26	---	---	---	4.0	.5	2.0	6.0	3.0	4.5	2.0	.0	1.0
27	---	---	---	2.5	.0	1.0	6.0	2.5	4.5	3.0	.0	1.5
28	14.5	4.5	6.0	5.0	1.0	3.0	6.0	3.0	4.5	5.5	2.5	3.5
29	8.5	2.5	5.5	5.5	1.5	4.0	5.0	1.0	3.0	6.0	2.5	4.5
30	9.5	3.0	6.0	6.0	3.5	4.5	4.5	.0	2.5	3.0	1.5	2.5
31	10.0	4.0	7.0	---	---	---	4.5	.0	2.5	1.5	.0	1.0
MONTH	17.0	2.0	9.5	10.5	.0	4.5	6.5	.0	3.0	6.0	.0	2.0

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 395516

09306200 PICEANCE CREEK RL RYAN GULCH, NR RIO BLANCO, CO.
LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

SOURCE AGENCY USGS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	.0	.5	7.0	2.5	5.0	12.0	2.5	7.0	19.5	8.0	13.5
2	1.0	.0	.0	6.0	2.0	4.5	12.5	2.5	8.5	19.0	11.5	14.5
3	1.5	.0	.5	7.0	2.0	4.5	9.0	3.5	6.0	13.5	7.5	10.5
4	2.5	.0	.5	9.5	3.5	6.0	8.5	4.0	5.5	19.0	6.5	12.0
5	2.0	.0	.5	9.0	1.5	5.5	12.0	2.5	6.0	17.0	7.0	12.0
6	2.0	.0	.5	5.5	.5	3.0	13.5	.0	8.5	17.5	9.0	12.5
7	2.0	.0	.5	7.0	1.0	3.5	9.5	3.5	7.5	16.5	6.5	11.5
8	3.0	.0	1.0	8.0	.5	4.5	12.5	6.0	8.5	11.5	6.5	8.5
9	5.0	.5	2.5	10.0	1.5	5.5	15.0	5.0	9.5	17.0	6.5	11.0
10	3.0	.0	.5	9.5	2.0	6.0	16.0	4.5	11.0	18.0	6.5	12.0
11	.0	.0	.0	6.0	2.0	4.5	15.5	5.5	10.5	13.5	7.5	10.5
12	4.5	.0	1.5	8.5	4.0	6.0	13.5	5.5	10.0	15.5	6.5	10.0
13	6.5	.0	3.0	8.0	2.0	5.0	15.0	5.0	11.0	18.0	5.5	11.5
14	6.0	1.0	3.5	11.0	2.0	6.5	15.0	7.5	10.0	17.5	7.0	12.5
15	8.0	2.5	5.5	11.5	2.5	7.0	16.5	5.0	11.5	14.5	8.5	12.0
16	9.0	2.5	5.5	9.5	3.0	6.5	15.5	8.5	11.0	15.0	9.0	11.5
17	6.5	3.0	4.5	8.0	3.0	5.5	18.0	6.0	12.0	13.0	8.5	10.5
18	8.0	2.5	5.0	10.0	3.0	6.5	16.0	6.5	12.0	21.0	8.5	14.0
19	7.5	2.0	5.0	10.0	3.0	6.5	17.5	7.5	12.5	15.5	9.0	12.5
20	6.0	1.5	4.0	8.0	5.0	6.5	15.5	9.0	10.5	13.0	8.5	10.5
21	6.0	.0	2.5	6.5	4.0	5.0	13.0	6.0	9.5	11.5	5.5	8.5
22	7.0	.0	3.5	9.5	2.0	6.0	17.0	4.5	11.0	13.0	7.5	10.0
23	8.5	.5	4.5	11.0	4.0	7.5	21.0	5.5	12.5	18.5	8.5	13.0
24	9.0	1.0	5.0	9.0	4.5	7.0	22.0	5.0	13.5	16.5	8.0	12.5
25	8.0	1.0	4.5	11.0	2.0	7.0	22.0	6.5	14.0	15.5	9.0	12.0
26	5.5	2.0	3.5	12.0	4.5	8.0	19.5	7.5	12.5	14.5	10.0	12.0
27	10.0	2.0	5.5	10.0	5.0	7.5	20.5	6.0	12.5	17.0	10.5	12.5
28	8.5	1.5	5.5	6.5	4.0	5.0	19.5	5.5	12.5	19.5	9.0	13.5
29	---	---	---	12.5	2.5	7.0	21.5	6.0	14.0	19.0	11.0	14.5
30	---	---	---	7.5	2.5	4.5	20.5	7.0	14.5	21.5	9.5	15.5
31	---	---	---	9.5	.0	4.5	---	---	---	20.5	12.0	15.5
MONTH	10.0	.0	3.0	12.5	.0	5.5	22.0	.0	10.5	21.5	5.5	12.0

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 395516

09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO.
LONGITUDE 1041749 DRAINAGE AREA

SIRFAM
504.00 DATUM 4070.00 STATE OH COUNTY 103

TEMPERATURE, WATER (DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			MEAN	MAX	MIN	MEAN	SEPTEMBER
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN					
1	22.0	10.5	15.0	19.5	16.0	17.0											
2	22.5	10.5	16.0	23.0	14.5	18.5											
3	17.0	12.0	14.5	23.0	12.5	17.5											
4	22.0	11.0	16.0	25.5	12.5	18.5											
5	24.0	10.5	16.0	26.0	12.5	19.0											
6	25.0	10.0	16.5	24.0	13.5	19.0											
7	23.5	11.5	16.0	24.5	14.0	18.5											
8	23.5	10.5	17.0	24.0	14.5	18.5											
9	25.0	12.0	18.5	22.0	14.0	17.5											
10	22.0	12.5	17.5	22.0	13.5	17.5											
11	24.0	11.5	18.0	21.0	14.5	18.0											
12	23.0	12.0	17.0	18.0	15.0	16.5											
13	22.5	11.0	16.0	---	---	---											
14	18.0	9.0	12.5	---	---	---											
15	21.0	6.5	13.5	---	---	---											
16	21.5	8.0	14.5	---	---	---											
17	22.5	10.0	16.0	18.0	14.0	15.5											
18	22.5	10.5	16.0	18.5	10.0	15.0											
19	24.0	10.5	17.0	19.5	14.5	17.0											
20	23.5	11.5	17.5	18.0	14.0	16.5											
21	24.5	11.5	18.0	19.0	14.0	16.5											
22	26.5	11.5	19.0	19.0	14.5	16.5											
23	22.0	12.5	17.5	18.0	14.5	16.5											
24	24.5	12.5	18.5	17.5	14.0	16.0											
25	23.5	12.5	18.5	19.5	14.5	16.5											
26	25.5	14.0	19.5	17.5	15.0	16.0											
27	23.0	15.5	19.5	18.0	13.5	16.0											
28	22.0	15.5	18.5	18.5	14.0	16.5											
29	23.0	13.5	18.0	17.5	14.5	16.0											
30	25.5	13.0	19.5	18.5	15.0	16.5											
31	---	---	---	---	---	---											
MONTH	26.5	6.5	17.0	26.0	10.0	17.0											
YEAR	26.5	.0	8.5														

PROCESS DATE IS 12-27-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39551609906200
LONGITUDE 1081749PICANCE CREEK HL RYAN GULCH, NR RIO BLANCO, CO.
DRAINAGE AREA 504.00STREAM
6070.00SOURCE AGENCY USGS
STATE OR COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1940 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1550	1540	1550	1430	1420	1430	1430	1410	1420
2	---	---	---	1550	1540	1540	1430	1420	1430	1420	1410	1420
3	1930	1890	1910	1550	1530	1540	1430	1420	1430	1420	1410	1410
4	1900	1850	1840	1550	1530	1540	1430	1410	1420	1420	1410	1420
5	1940	1800	1900	1540	1520	1530	1420	1400	1410	1410	1390	1390
6	1920	1850	1890	1540	1520	1530	1420	1390	1410	1440	1390	1420
7	1860	1810	1860	1540	1520	1530	1420	1410	1420	1490	1400	1480
8	1860	1730	1810	1530	1520	1530	1430	1410	1420	1480	1400	1440
9	1800	1740	1770	1550	1530	1540	1440	1410	1420	1460	1380	1430
10	1800	1730	1770	1550	1520	1540	1500	1340	1440	1450	1380	1430
11	1760	1700	1740	1520	1470	1500	1460	1390	1440	1470	1400	1440
12	1730	1660	1690	1510	1420	1500	1460	1390	1430	1480	1380	1440
13	1750	1700	1720	1470	1390	1440	1470	1410	1440	1480	1400	1440
14	1730	1670	1700	1450	1440	1440	1470	1390	1430	1480	1420	1450
15	1790	1600	1690	1460	1430	1450	1440	1400	1420	1470	1390	1440
16	1680	1620	1650	1480	1450	1460	1430	1420	1430	1480	1430	1460
17	1670	1620	1650	1470	1430	1450	1430	1420	1420	1460	1430	1450
18	1660	1610	1640	1490	1430	1460	1420	1410	1420	1460	1420	1450
19	1640	1600	1620	1470	1430	1450	1430	1410	1420	1480	1420	1460
20	1620	1580	1610	1460	1440	1450	1430	1410	1430	1480	1440	1460
21	1620	1580	1600	1470	1430	1450	1420	1410	1420	1510	1430	1470
22	1610	1570	1590	1450	1440	1450	1420	1410	1420	1490	1420	1470
23	---	---	---	1450	1440	1450	1410	1390	1400	1470	1410	1450
24	---	---	---	1440	1420	1430	1420	1400	1410	1460	1430	1450
25	---	---	---	1440	1420	1430	1430	1410	1420	1460	1440	1450
26	---	---	---	1450	1430	1440	1420	1400	1420	1510	1410	1450
27	---	---	---	1480	1410	1440	1420	1400	1410	1470	1400	1450
28	1600	1570	1590	1450	1410	1440	1420	1400	1410	1470	1450	1460
29	1580	1560	1570	1440	1420	1440	1420	1400	1410	1460	1440	1450
30	1570	1550	1560	1430	1420	1430	1430	1410	1420	1460	1450	1460
31	1560	1550	1560	---	---	---	1430	1410	1420	1470	1430	1460
MONTH	1940	1550	1710	1550	1390	1480	1500	1380	1420	1510	1380	1440

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 39551600406200 PIGFANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO.
LONGITUDE 1081749SIRFAM SOURCE AGENCY USGS
504.00 DATUM 6070.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN	MAX	MTN	MEAN
1	1460	1430	1450	1470	1420	1450	1480	1460	1470	1730	1680	1710
2	1580	1450	1510	1490	1440	1470	1460	1430	1450	1720	1670	1700
3	1550	1410	1500	1470	1440	1460	1440	1320	1390	1660	1550	1620
4	1500	1420	1470	1480	1430	1460	1420	1360	1390	1810	1580	1670
5	1530	1390	1480	1510	1450	1480	1480	1400	1440	1950	1810	1870
6	1510	1390	1460	1500	1350	1450	1470	1410	1440	1900	1760	1840
7	1500	1350	1440	1430	1360	1390	1470	1320	1400	2170	1880	2060
8	1490	1400	1460	1460	1410	1430	1410	1360	1380	2090	2040	2050
9	1480	1410	1460	1460	1420	1430	1440	1380	1420	2120	1950	2070
10	1470	1450	1460	1450	1430	1440	1500	1440	1480	1930	1690	1770
11	---	---	---	1450	1380	1410	1510	1440	1480	1700	1590	1640
12	1440	1370	1410	1430	1410	1420	1520	1450	1490	1660	1600	1630
13	1490	1400	1440	1440	1410	1420	1530	1500	1520	---	---	---
14	1550	1410	1440	1430	1400	1410	1600	1510	1560	---	---	---
15	1460	1440	1450	1430	1400	1410	1600	1520	1560	---	---	---
16	1440	1420	1430	1430	1390	1410	1560	1530	1540	---	---	---
17	1440	1420	1430	1400	1360	1380	1560	1520	1540	---	---	---
18	1430	1400	1420	1450	1370	1390	1630	1540	1590	---	---	---
19	1410	1400	1410	1490	1420	1450	1610	1570	1590	1950	1880	1900
20	1410	1370	1400	1490	1450	1470	1660	1610	1640	1990	1920	1950
21	1440	1360	1410	1480	1440	1460	1810	1660	1750	2080	1950	2000
22	1480	1400	1450	1490	1450	1460	1840	1790	1810	2280	2030	2100
23	1470	1400	1440	1480	1450	1460	1910	1850	1870	2220	2150	2160
24	1470	1430	1450	1470	1430	1450	2270	1910	2040	2250	2140	2210
25	1470	1370	1420	1500	1440	1470	2350	2110	2220	2330	2130	2190
26	1430	1390	1400	1480	1460	1470	2410	2050	2180	2420	2300	2380
27	1460	1400	1430	1460	1390	1430	2470	2220	2300	2470	1230	2200
28	1430	1410	1420	1430	1400	1410	2140	1710	1860	2490	1950	2370
29	---	---	---	---	1410	1440	1730	1660	1690	2490	2310	2350
30	---	---	---	1460	1360	1410	1790	1650	1680	2310	2220	2260
31	---	---	---	1500	1370	1430	---	---	---	2210	2130	2170
MONTH	1580	1350	1440	1510	1340	1440	2470	1320	1640	2490	1230	2000

STATION NUMBER
LATITUDE 395516

0936200 PTFANCE CHEEK RL RYAN GULCH, NR RIO PLANCO, CO. STREAM SOURCE AGENCY USGS
LONGITUDE 1091749 DRAINAGE AREA 504.00 DATUM 6070.00 STATE 08 COUNTY 103

TO BLANCO, CO.	STREAM
506.00	DATE 6070.00

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1991

[illegible]

PICANCE CREEK AT WHITE RIVER, CO. SOURCE AGENCY USGS
 LONGITUDE 1091409 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	6.5	12.0	8.5	3.0	6.0	4.5	1.5	2.5	4.5	1.5	2.5	3.0	.0	1.0
2	17.0	6.0	11.5	8.0	3.0	5.5	4.5	.5	2.5	4.5	.5	2.5	4.0	.0	1.5
3	17.0	4.5	10.0	7.0	3.0	5.0	7.0	3.0	4.5	7.0	3.0	4.5	4.5	.0	2.0
4	17.0	6.0	11.5	9.0	3.5	7.0	6.0	3.5	4.5	6.0	3.5	4.5	4.5	.5	2.5
5	17.0	6.5	11.5	10.0	4.0	7.0	5.0	3.5	4.0	5.0	3.5	4.0	3.5	2.0	3.0
6	17.0	6.5	11.5	8.5	4.0	6.5	4.5	2.5	3.5	4.5	2.5	3.5	4.0	.5	2.0
7	17.0	6.5	11.5	10.0	5.0	7.5	4.5	2.5	3.0	4.5	2.5	3.0	1.0	.0	.5
8	17.0	6.5	11.5	10.5	5.5	7.5	4.0	.5	2.0	4.0	.5	2.0	.5	.0	.0
9	16.5	6.0	11.0	9.5	4.0	6.5	3.0	.0	.5	2.0	.0	.5	.5	.0	.0
10	15.0	6.0	10.0	9.0	3.0	6.0	.5	.0	.5	.5	.0	.5	.5	.0	.5
11	14.0	5.0	9.5	8.5	3.0	6.0	.5	.0	.0	.5	.0	.0	.5	.0	.0
12	11.5	6.0	9.0	9.0	6.0	7.5	.5	.0	.0	.5	.0	.0	.5	.0	.0
13	12.5	8.5	10.5	7.5	5.0	6.5	.5	.0	.0	.5	.0	.0	.5	.0	.0
14	12.0	7.5	9.5	5.5	3.0	4.0	.5	.0	.0	.5	.0	.0	.5	.0	.0
15	10.0	7.0	8.5	---	---	---	.5	.0	.5	.5	.0	.5	.5	.0	.5
16	8.5	6.0	7.5	---	---	---	1.0	.0	.5	1.0	.0	.5	.5	.0	.0
17	9.5	6.0	7.5	---	---	---	3.0	.0	1.5	.5	.0	.5	.5	.0	.5
18	11.0	6.5	8.0	---	---	---	4.0	.0	2.0	1.5	.0	.5	1.5	.0	.5
19	12.5	4.5	8.0	---	---	---	3.5	.5	2.0	2.5	.0	.0	2.5	.0	1.0
20	12.0	4.5	8.0	---	---	---	2.5	.0	1.0	3.0	.0	.0	3.0	.0	1.0
21	11.5	4.5	7.0	---	---	---	4.0	.0	1.5	2.0	.0	.0	2.0	.0	.5
22	11.5	5.5	8.0	---	---	---	6.0	3.0	4.0	2.0	.0	.0	2.0	.0	.5
23	8.5	2.5	5.5	---	---	---	5.5	2.5	4.0	2.0	.0	.0	2.0	.0	.5
24	8.5	1.0	4.5	---	---	---	4.0	.5	2.0	2.5	.0	.0	2.5	.0	1.0
25	8.5	1.0	5.0	---	---	---	5.5	2.0	3.5	4.0	.0	.0	4.0	.0	1.5
26	6.0	3.0	4.5	---	---	---	6.0	2.0	4.0	.5	.0	.0	.5	.0	.0
27	6.0	3.0	5.0	---	---	---	5.5	1.5	3.0	.5	.0	.0	.5	.0	.5
28	6.0	1.5	3.5	3.0	.5	2.0	5.5	2.0	3.5	5.0	.5	.5	5.0	.5	2.5
29	7.5	1.0	4.0	4.5	.5	2.5	2.5	.5	1.5	5.0	1.0	1.5	5.0	1.0	3.0
30	8.0	2.0	5.0	6.0	2.0	3.5	3.0	.0	1.0	3.0	1.0	2.0	3.0	1.0	2.0
31	9.0	3.0	6.0	---	---	---	3.0	.0	1.0	1.0	.0	.0	1.0	.0	.5
MONTH	17.5	1.0	8.5	10.5	.5	5.5	7.0	.0	2.0	5.0	.0	.0	5.0	.0	1.0

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 400439

09306222 PICFANCE CREEK AT WHITE RIVER, CO.
LONGITUDE 108140R DRAINAGE AREA

SOURCE AGENCY USGS
STATE 08 COUNTY 103

TEMPERATURE. WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY					MARCH					APRIL					MAY				
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN					
1	1.0	.0	.5	7.5	1.5	4.5	12.0	2.5	7.0	24.5	9.0	16.0								
2	.5	.0	.5	4.5	1.5	3.5	13.5	3.5	8.5	21.0	11.5	15.5								
3	.5	.0	.5	9.0	4.0	5.5	9.0	1.0	6.5	14.5	8.5	11.5								
4	1.0	.0	.5	9.0	3.0	5.5	7.0	2.5	4.5	21.0	6.5	12.5								
5	1.0	.0	.5	9.0	1.5	5.0	11.5	.0	5.5	20.5	7.0	13.5								
6	.5	.0	.5	7.0	2.0	4.0	13.5	3.5	8.0	17.0	9.5	13.0								
7	1.0	.0	.5	6.0	1.0	3.0	10.0	6.5	8.0	19.5	5.5	12.0								
8	1.5	.0	.5	8.5	1.0	4.5	12.5	5.0	8.5	13.5	5.5	9.5								
9	2.0	.0	.5	10.5	2.0	5.5	14.5	5.0	9.5	19.0	6.0	11.5								
10	.5	.0	.0	10.0	1.5	5.5	16.5	6.5	11.0	23.0	5.0	13.0								
11	.5	.0	.0	6.5	1.5	4.0	15.0	6.5	10.5	17.5	8.0	11.5								
12	2.5	.0	.5	9.0	3.0	6.0	15.0	5.5	10.5	17.5	5.5	10.5								
13	5.5	.0	1.0	9.0	2.0	5.5	17.0	7.5	12.0	23.5	5.5	15.0								
14	8.0	.0	2.0	9.0	2.0	5.5	16.0	5.5	11.0	21.5	7.0	14.0								
15	8.5	2.5	4.5	12.0	2.5	6.5	16.5	9.5	12.5	19.0	9.0	13.0								
16	7.0	2.0	5.0	9.5	2.5	6.0	17.5	7.0	12.0	16.5	9.5	12.0								
17	7.5	2.0	4.5	8.5	2.0	5.5	17.0	7.5	12.0	18.5	9.0	12.5								
18	8.0	2.0	4.5	10.0	2.5	6.0	17.5	8.0	13.0	24.0	8.5	16.0								
19	5.0	1.5	4.5	11.5	7.5	9.5	19.0	10.0	13.5	21.5	10.5	15.5								
20	4.5	1.0	3.5	8.0	5.0	6.5	14.0	6.5	10.5	16.0	2.5	12.5								
21	6.5	.0	1.5	7.0	3.0	5.0	13.5	4.5	9.5	12.5	7.0	9.5								
22	8.5	.0	2.5	11.0	2.5	6.5	18.0	6.0	11.5	15.5	8.0	11.5								
23	9.0	.0	3.5	12.5	3.5	8.0	21.5	4.0	12.5	23.5	9.5	15.0								
24	8.5	.5	4.5	9.0	2.5	6.5	22.0	6.5	14.0	21.5	4.5	14.5								
25	5.0	.5	4.0	11.5	2.5	7.0	21.5	8.0	14.0	21.5	6.0	14.5								
26	5.0	1.5	3.5	12.0	4.5	8.0	21.5	6.0	13.5	21.5	11.0	15.5								
27	9.0	1.5	5.0	11.0	5.0	8.0	22.0	5.5	13.0	23.0	10.5	16.0								
28	7.5	1.0	4.5	7.0	3.5	5.0	24.0	6.0	14.0	22.5	12.0	16.5								
29	---	---	---	10.0	2.5	6.0	25.0	7.0	15.0	21.0	10.5	15.5								
30	---	---	---	6.5	3.0	4.5	23.0	7.5	15.0	25.0	10.0	17.0								
31	---	---	---	9.5	.0	4.5	---	---	---	23.5	10.0	17.5								
MONTH	9.0	.0	2.5	12.5	.0	5.5	25.0	.0	11.0	25.0	2.5	13.5								

SOURCE AGENCY USGS
STATF 08 COUNTY 103

STREFAM

DATUM 5730.00

652.00

DRAINAGE AREA

1091408

PICEANCE CREEK AT WHITE RIVER, CO.

09306222

LONGITUDE 400439

STATION NUMBER

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN

SEPTEMBER

AUGUST

JULY

JUNE

1	25.5	2.5	14.0									
2	26.5	5.0	14.0									
3	20.0	13.5	16.5									
4	25.0	10.5	17.5									
5	27.0	12.0	18.0									
6	25.0	12.5	14.5									
7	25.5	14.0	19.0									
8	26.0	14.5	19.5									
9	25.5	14.5	19.5									
10	26.0	10.5	19.0									
11	30.0	12.5	20.0									
12	27.0	10.5	18.5									
13	26.0	10.5	17.0									
14	22.0	8.5	13.0									
15	26.0	6.0	15.0									
16	26.5	7.0	15.5									
17	25.5	9.5	16.5									
18	24.5	10.5	16.5									
19	26.5	10.0	18.0									
20	28.0	11.5	19.5									
21	27.5	10.5	19.5									
22	30.5	12.0	20.5									
23	25.5	10.5	19.0									
24	30.5	13.0	21.0									
25	31.5	12.0	21.5									
26	28.0	14.0	20.0									
27	.0	15.5	21.0									
28	28.0	16.5	21.0									
29	30.5	11.0	21.5									
30	19.5	10.5	16.0									
31	---	---	---									
MONTH	31.5	2.5	18.5									
YEAR	31.5	.0	7.5									

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

PROCESS DATE IS 12-22-91

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 40043909306222 PICEANCE CREEK AT WHITE RIVER, CO.
LONGITUDE 1081408 DRAINAGE AREASOURCE AGENCY USGS
STATF 08 COUNTY 103STREAM
5730.00 DATUM

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2330	2220	2260	1750	1690	1710	1620	1600	1610	1650	1590	1620
2	2310	2190	2240	1710	1690	1690	1630	1600	1620	1640	1560	1610
3	2240	1960	2120	1700	1670	1690	1630	1610	1620	1640	1600	1610
4	2090	1960	2040	1760	1670	1770	1620	1610	1620	1630	1600	1610
5	2130	1990	2030	1800	1730	1760	1630	1590	1610	1620	1590	1600
6	2140	1990	2070	1810	1740	1790	---	---	---	1630	1590	1600
7	2170	2000	2100	1820	1750	1780	---	---	---	1690	1580	1620
8	2260	2060	2100	1800	1750	1790	---	---	---	1690	1600	1640
9	2310	2180	2240	1820	1770	1790	---	---	---	1730	1650	1660
10	2310	2070	2190	1840	1770	1900	1730	1660	1390	1640	1560	1620
11	2360	2200	2260	1800	1710	1740	1670	1590	1600	1740	1620	1680
12	2280	2120	2180	1790	1710	1750	1680	1620	1650	1790	1530	1720
13	2330	1890	2210	1810	1650	1710	---	---	---	1820	1500	1690
14	2240	2090	2200	1710	1670	1690	1710	1620	1690	1770	1610	1690
15	2490	1570	2140	1670	1670	1670	1660	1610	1640	1790	1700	1730
16	2140	1990	2050	---	---	---	1630	1510	1570	1760	1700	1730
17	2070	2000	2030	---	---	---	1650	1550	1610	1730	1640	1690
18	2060	1990	2020	---	---	---	1640	1510	1500	1740	1510	1670
19	2010	1930	1980	---	---	---	1620	1580	1590	1730	1670	1700
20	1950	1890	1910	---	---	---	1610	1520	1590	1760	1560	1690
21	1890	1830	1860	---	---	---	1630	1590	1600	1780	1650	1730
22	2010	1840	1900	---	---	---	1630	1600	1610	1830	1640	1730
23	1990	1910	1950	---	---	---	1610	1590	1600	1780	1660	1720
24	1970	1870	1900	---	---	---	1620	1580	1600	1750	1690	1720
25	1980	1870	1920	---	---	---	1630	1600	1610	1760	1720	1730
26	1920	1890	1900	---	---	---	1630	1600	1610	1820	1700	1760
27	1930	1860	1900	---	---	---	1620	1600	1610	1950	1810	1830
28	1870	1760	1800	1530	1500	1590	1620	1600	1610	1790	1670	1740
29	1780	1710	1740	1640	1610	1620	1610	1600	1610	1760	1700	1750
30	1790	1720	1740	1640	1610	1620	1650	1590	1620	1860	1820	1830
31	1750	1690	1720	---	---	---	1640	1590	1610	1700	1670	1690
MONTH	2490	1570	2020	1840	1500	1720	1730	1510	1600	1950	1500	1690

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 40043909306222 PICEANCE CREEK AT WHITE RIVER, CO.
LONGITUDE 1091409DRAINAGE AREA
652.00

DATUM 5730.00

SIRFAM
SOURCE AGENCY USGS
STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C). WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	FEBRUARY					APRIL					MAY				
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1750	1320	1690	1850	1780	1820	1920	1850	1880	4270	3580	4010			
2	2040	1590	1910	1910	1820	1870	1960	1780	1820	4080	3590	3810			
3	1940	1800	1860	1900	1810	1850	1790	1670	1720	5050	3120	3940			
4	1770	1620	1700	1870	1800	1830	1700	1610	1660	3380	2650	2450			
5	1800	1660	1760	1960	1800	1830	1900	1700	1750	3610	2730	3090			
6	1950	1730	1840	1870	1760	1830	1890	1750	1820	4170	3510	3750			
7	2030	1730	1880	1750	1700	1720	1770	1640	1730	4130	3460	3750			
8	1870	1700	1790	1970	1730	1800	1640	1550	1610	4150	3340	3890			
9	1770	1610	1700	1890	1790	1830	1700	1630	1660	4620	4110	4280			
10	1790	1660	1740	1870	1800	1820	1780	1690	1720	5530	4630	5020			
11	2310	1630	1860	1830	1740	1780	1780	1680	1750	5500	5210	5340			
12	1920	1670	1820	1790	1730	1770	1770	1670	1730	5510	4820	5210			
13	1770	1650	1700	1790	1750	1770	1970	1770	1800	5280	4500	5080			
14	1810	1740	1760	1780	1750	1760	1940	1800	1870	4490	4100	4250			
15	1860	1770	1760	1780	1740	1760	1940	1860	1900	4900	3920	4470			
16	1850	1770	1800	1790	1740	1760	2000	1870	1940	5260	3580	4730			
17	1820	1770	1790	1790	1680	1730	2000	1960	1970	5630	4430	4810			
18	1820	1770	1790	1870	1710	1760	2230	1950	2080	4950	4520	4700			
19	1860	1790	1810	1900	1850	1880	2480	2230	2310	4710	3880	4240			
20	1820	1770	1800	1860	1820	1840	2660	2230	2390	4120	3800	3940			
21	1790	1750	1760	1870	1770	1820	2840	2540	2690	4520	3720	4100			
22	1870	1650	1770	1830	1790	1810	2450	2760	2810	5050	3970	4350			
23	1850	1680	1810	1820	1790	1800	6120	2630	3690	5180	4800	5010			
24	1880	1800	1830	1980	1700	1820	3050	2790	2980	5780	5080	5290			
25	1890	1820	1860	1900	1830	1860	5000	2700	3790	6470	4000	5830			
26	1820	1760	1780	1860	1820	1840	5380	4850	5090	5480	4690	5140			
27	1840	1770	1800	1870	1740	1820	5640	5050	5360	4890	4530	4660			
28	1890	1800	1840	1770	1650	1710	5640	5340	5510	4560	4100	4370			
29	---	---	---	1890	1730	1790	6060	4170	5180	4220	3810	4000			
30	---	---	---	1860	1740	1780	4480	3620	4040	4270	3780	4060			
31	---	---	---	1940	1640	1770	---	---	---	4220	3840	4000			
MONTH	2310	1320	1790	1980	1640	1800	6120	1550	2610	6470	2650	4390			

PROCFSS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306222 PICFANCE CREEK AT WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
 LONGITUDE 400439 LONGITUDE 1041409 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1940 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	SEPTEMBER			
											MAX	MIN	MEAN	
AUGUST														
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	AUGUST			
											MAX	MIN	MEAN	
JULY														
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	JULY			
											MAX	MIN	MEAN	
JUNE														
1	4120	3510	3750											
2	4050	3840	3950											
3	4030	2990	3420											
4	3640	3040	3400											
5	4000	3810	3890											
6	4160	3780	3970											
7	4440	3540	4060											
8	3710	3050	3440											
9	3960	3210	3430											
10	5160	4020	4630											
11	5920	4790	5530											
12	5910	5370	5660											
13	5740	5310	5530											
14	5730	5070	5420											
15	5970	5210	5600											
16	5970	5310	5620											
17	5940	5230	5560											
18	9520	3820	4430											
19	3970	3640	3800											
20	3930	3620	3760											
21	4000	3650	3810											
22	4240	3630	3880											
23	3850	3500	3700											
24	4010	3660	3800											
25	3880	3520	3690											
26	3740	3340	3570											
27	5630	3290	3880											
28	3940	3150	3450											
29	3510	3140	3330											
30	3160	1120	3040											
31	---	---	---											
MONTH	9520	1120	4170											
YEAR	9520	1120	2470											

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

09306255 YFELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS
 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

TEMPERATURE. WATER (DEG. C). WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	.0	.0	.0	12.5	.0	5.5	5.5	.0	1.5	5.5	.0	1.5	4.0	.0	.5
2	20.5	3.0	10.5	12.0	1.5	6.0	7.0	2.5	2.5	7.0	2.5	4.5	6.5	.0	2.5
3	20.0	3.5	11.0	13.5	3.0	7.0	6.0	1.0	1.0	6.0	1.0	2.5	.0	.0	.0
4	19.0	3.0	9.5	12.5	.0	5.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0
5	14.0	6.0	10.0	6.5	2.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	9.5	3.0	5.5	.0	.0	.0	3.0	.0	.5	3.0	.0	.5	.0	.0	.0
7	16.0	2.0	7.5	.0	.0	.0	5.0	.0	1.5	5.0	.0	1.5	3.0	.0	.5
8	14.0	3.0	7.0	4.0	.0	1.0	7.5	1.5	3.5	7.5	.0	3.5	3.0	.0	.5
9	12.0	.0	4.0	3.0	.0	.5	4.0	.0	3.0	4.0	.0	3.0	6.5	.0	1.5
10	9.5	.0	3.5	4.0	.0	1.0	7.5	.0	3.0	7.5	.0	3.0	6.0	.5	2.5
11	13.5	.0	5.5	.0	.0	.0	4.5	.0	1.0	4.5	.0	1.0	3.0	.0	.5
12	11.5	3.5	7.5	9.5	4.5	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	14.0	6.0	10.0	6.5	2.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	13.5	5.0	8.5	6.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	11.0	5.0	8.0	4.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	8.5	3.0	5.5	.0	.0	.0	3.0	.0	.5	3.0	.0	.5	.0	.0	.0
17	13.5	2.5	7.0	.0	.0	.0	4.5	.0	1.0	4.5	.0	1.0	3.5	.0	1.0
18	14.5	5.0	8.5	.0	.0	.0	5.5	.0	1.5	5.5	.0	1.5	4.0	.0	.5
19	16.0	2.0	7.5	.0	.0	.0	5.0	.0	1.5	5.0	.0	1.5	3.0	.0	.5
20	15.5	1.5	7.5	2.5	.0	.5	3.5	.0	.5	3.5	.0	.5	4.5	.0	1.0
21	15.5	1.5	7.5	2.5	.0	.5	6.0	.0	1.5	6.0	.0	1.5	2.5	.0	.5
22	14.0	3.0	7.0	4.0	.0	1.0	7.5	1.5	3.5	7.5	1.5	3.5	3.0	.0	.5
23	12.5	.5	5.0	6.0	.0	2.5	7.0	1.0	3.5	7.0	1.0	3.5	3.0	.0	.5
24	12.5	.0	4.0	5.0	.0	2.0	6.0	.0	1.5	6.0	.0	1.5	5.5	.0	1.5
25	12.0	.0	4.0	3.0	.0	.5	4.0	.0	3.0	4.0	.0	3.0	6.5	.0	1.5
26	8.0	.0	4.0	3.5	.0	.5	4.0	.0	3.0	4.0	.0	3.0	.0	.0	.0
27	6.0	1.0	4.0	.0	.0	.0	7.5	.0	3.0	7.5	.0	3.0	.0	.0	.0
28	8.5	.0	3.5	4.0	.0	1.0	7.5	.0	3.0	7.5	.0	3.0	6.0	.5	2.5
29	12.0	.0	4.0	6.5	.0	2.0	5.0	.0	1.0	5.0	.0	1.0	6.5	.0	2.5
30	12.5	.0	4.5	7.5	.0	2.5	4.5	.0	.5	4.5	.0	.5	6.0	.0	2.0
31	13.5	.0	5.5	---	---	---	4.5	.0	1.0	4.5	.0	1.0	3.0	.0	.5
MONTH	20.5	.0	6.5	13.5	.0	2.0	8.0	.0	1.5	8.0	.0	1.5	6.5	.0	1.0

PROCESS DATE IS 12-22-81

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 40100709306255 YELLOW CREEK NEAR WHITE RIVER, CO.
LONGITUDE 1082402DRAINAGE AREA 262.00 DATUM 5535.00
STREAM SOURCE AGENCY USGS
STATE OR COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	.0	.5	11.5	.0	4.5	17.0	.0	7.0	27.0	6.0	14.0
2	.0	.0	.0	14.5	2.0	6.5	11.5	.0	4.0	22.0	11.0	15.5
3	.0	.0	.0	9.0	.0	4.0	10.0	4.0	6.5	15.5	6.5	---
4	1.0	.0	.0	16.0	.0	5.5	14.5	3.0	6.0	24.5	9.5	---
5	5.5	.0	1.0	10.5	.0	4.5	17.5	.0	6.0	23.0	5.0	---
6	11.0	.0	4.0	13.5	.0	5.5	20.5	.0	9.0	19.0	8.0	---
7	10.5	.0	4.0	15.5	1.0	6.5	10.0	4.0	6.5	25.5	8.5	---
8	10.5	.0	2.5	16.5	2.0	7.5	18.0	2.5	9.0	13.0	5.5	---
9	11.5	.0	3.5	18.0	2.0	7.5	19.0	1.5	9.5	22.0	6.0	---
10	13.0	.0	4.5	7.5	1.5	4.5	14.5	3.0	6.0	23.0	3.0	---
11	.0	.0	.0	12.5	.0	4.5	18.5	3.0	10.0	---	---	---
12	.0	.0	.0	13.0	2.0	6.0	20.0	2.5	10.0	---	---	---
13	5.5	.0	1.0	10.5	.0	4.5	23.0	4.5	12.0	---	---	---
14	8.0	.0	3.0	13.5	.0	5.0	23.5	1.5	11.5	---	---	---
15	10.0	1.0	4.5	17.5	.0	6.5	21.0	8.5	11.5	---	---	---
16	11.0	.0	4.0	13.5	.0	5.5	23.5	4.0	12.5	---	---	---
17	11.0	.0	4.0	14.0	.0	5.0	20.5	5.0	12.5	---	---	---
18	10.0	.0	4.0	14.0	2.0	6.5	22.5	4.5	12.5	---	---	---
19	10.5	.0	4.0	15.5	1.0	6.5	21.5	8.0	13.0	24.0	12.5	14.0
20	5.0	.0	2.0	10.5	2.5	5.5	20.5	4.0	11.0	17.5	8.5	12.0
21	9.5	.0	2.5	9.0	2.0	5.0	16.5	3.0	9.5	14.0	6.0	9.5
22	10.5	.0	2.5	16.5	2.0	7.5	23.0	4.5	12.0	17.5	8.0	12.0
23	12.5	.0	3.5	17.0	2.0	8.5	25.0	2.5	12.5	25.0	9.5	15.0
24	13.0	.0	4.0	9.0	1.5	5.5	25.0	4.0	14.0	24.5	6.5	14.5
25	11.5	.0	3.5	18.0	2.0	7.5	24.0	6.5	14.0	21.5	8.5	14.5
26	6.5	.0	2.5	16.5	2.0	8.0	23.0	5.5	13.5	22.5	11.0	16.0
27	14.0	.0	5.0	14.0	3.0	7.5	23.5	4.5	13.0	24.0	12.5	15.5
28	13.0	.0	4.5	7.5	1.5	4.5	25.5	5.0	14.5	25.5	11.5	17.0
29	---	---	---	16.5	1.0	7.0	25.5	5.5	14.5	25.5	10.0	17.5
30	---	---	---	7.0	.0	3.0	27.0	5.5	15.5	28.5	9.0	18.0
31	---	---	---	12.5	.0	4.5	---	---	---	27.0	14.0	18.5
MONTH	14.0	.0	2.5	18.0	.0	6.0	27.0	.0	10.5	28.5	3.0	15.5

SOURCE AGENCY USGS
STATE 08 COUNTY 103

TEMPERATURE. WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

[illegible]

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

STATION NUMBER
LATITUDE 40100709306255
LONGITUDE 1082402YELLOW CREEK NEAR WHITE RIVER, CO.
DRAINAGE AREASTRFAM
262.00SOURCE AGENCY USGS
STATE OR COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2960	2900	2940	3060	2860	2960	3100	2910	3000	3250	2660	3090
2	2960	2890	2930	2980	2910	2950	3140	2910	2980	3210	2700	3050
3	2970	2860	2930	2980	2860	2940	3060	2970	3030	3190	2830	3020
4	2980	2920	2960	3000	2910	2950	3040	2990	3020	3180	2910	3000
5	3000	2920	2960	3010	2910	2970	3030	2960	3010	3010	2930	2980
6	3000	2900	2960	3010	2890	2970	3050	2920	3000	3230	2640	3010
7	2990	2900	2960	3010	2950	2980	3050	3000	3020	3170	2610	3040
8	3000	2920	2960	3000	2940	2970	3210	2690	2970	3360	2740	3140
9	3010	2900	2970	3030	2910	2970	3220	2590	3030	3330	2760	3140
10	2960	2890	2920	3010	2830	2960	3380	2620	3040	3300	2730	3110
11	2990	2900	2950	3040	2830	2960	3260	2700	3050	3430	2790	3160
12	2980	2900	2960	3000	2910	2970	3280	2740	3080	3560	2830	3240
13	2990	2740	2940	3020	2920	2970	3380	2800	3120	3490	2870	3200
14	3150	2030	2960	3030	2920	3000	3320	2800	3100	3400	2850	3120
15	3100	1430	2900	3170	2650	2900	3120	2750	2980	3190	2800	3050
16	3070	2190	2900	3160	2590	3010	3080	2740	2970	3290	2830	3060
17	3070	2510	2940	3320	2560	3070	3130	2800	3010	3140	2860	3050
18	3080	3020	3050	3350	2620	3100	3130	2830	3040	3270	2810	3090
19	3070	2990	3040	3290	2680	3050	3120	2870	3020	3440	2780	3170
20	3050	2950	3020	3240	2720	3040	3180	2750	3050	3410	2800	3160
21	3040	2970	3010	3180	2680	3040	3110	2860	3020	3430	2760	3170
22	3030	2970	3010	3210	2810	3070	3040	2930	2990	3400	2790	3170
23	3030	2940	2990	3100	2950	3040	2970	2920	2950	3330	2800	3150
24	3040	2730	2900	3070	2910	3010	3050	2690	2950	3180	2640	3070
25	3140	2740	2980	3250	2730	3070	3060	2870	2970	3150	2670	3040
26	3100	2950	3020	3240	2740	3080	3060	2820	2960	3370	2930	3090
27	3060	3010	3030	3410	2780	3150	3080	2810	2950	3390	2900	3070
28	3070	2930	3000	3110	2770	3020	3090	2850	2960	3090	3010	3050
29	3130	2800	3010	3080	2820	2950	3170	2320	2760	3070	2960	3040
30	3160	2900	3010	3040	2990	3040	3210	2550	3030	3070	3010	3040
31	3050	2830	2910	---	---	---	3230	2640	3050	3080	2850	3000
MONTH	3160	1430	2970	3410	2560	3010	3380	2320	3000	3560	2610	3090

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER
LATITUDE 40100709306255
LONGITUDE 1082402YELLOW CREEK NEAR WHITE RIVER, CO.
DRAINAGE AREA

262.00 DATUM 5535.00

STREAM
STATE OF ARIZONA COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	FEBRUARY					MARCH					APRIL					MAY				
	MAX	MTN	MFAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	3230	2870	3090	3290	3070	3180	3290	3070	3180	---	---	---	3560	3390	3450	---	---	---	---	---
2	3670	2800	3280	3250	2940	3180	3250	2940	3180	---	---	---	3440	3340	3400	---	---	---	---	---
3	3440	2830	3210	3310	3090	3220	3310	3090	3220	---	---	---	3440	3170	3300	---	---	---	---	---
4	3440	2790	3170	3280	3230	3240	3280	3230	3240	---	---	---	3600	3420	3510	---	---	---	---	---
5	3500	2810	3200	3340	3270	3600	3340	3270	3600	---	---	---	3670	3410	3540	---	---	---	---	---
6	3360	3180	3240	3290	3030	3240	3290	3030	3240	---	---	---	3470	3230	3350	---	---	---	---	---
7	3390	2760	3150	3290	2860	3200	3290	2860	3200	---	---	---	3660	3430	3550	---	---	---	---	---
8	3290	2810	3100	3370	2990	3270	3370	2990	3270	---	---	---	3610	3420	3520	---	---	---	---	---
9	3140	2910	3060	3360	2600	3170	3360	2600	3170	---	---	---	3760	3400	3680	---	---	---	---	---
10	3310	2910	3100	3380	3130	3320	3380	3130	3320	---	---	---	---	---	---	---	---	---	---	---
11	3760	3050	3390	3370	3200	3300	3370	3200	3300	---	---	---	---	---	---	---	---	---	---	---
12	3120	2670	2970	3340	3320	3340	3340	3320	3340	---	---	---	---	---	---	---	---	---	---	---
13	3220	2700	3040	3390	3260	3350	3390	3260	3350	---	---	---	---	---	---	---	---	---	---	---
14	3120	2920	3020	3420	3110	3340	3420	3110	3340	---	---	---	---	---	---	---	---	---	---	---
15	3040	2880	2990	3410	3300	3360	3410	3300	3360	---	---	---	---	---	---	---	---	---	---	---
16	3030	2910	2990	3420	3300	3360	3420	3300	3360	---	---	---	---	---	---	---	---	---	---	---
17	3020	2900	2970	3370	2910	3190	3370	2910	3190	---	---	---	---	---	---	---	---	---	---	---
18	3020	2960	2990	3430	3180	3340	3430	3180	3340	---	---	---	---	---	---	---	---	---	---	---
19	3060	2980	3020	3440	3300	3410	3440	3300	3410	---	---	---	3510	3390	3450	---	---	---	---	---
20	3130	3000	3060	3440	3380	3420	3440	3380	3420	---	---	---	3480	3350	3440	---	---	---	---	---
21	3210	2790	3110	3420	3300	3370	3420	3300	3370	---	---	---	3460	3400	3430	---	---	---	---	---
22	3420	2680	3170	3430	3340	3400	3430	3340	3400	---	---	---	3470	3380	3430	---	---	---	---	---
23	3260	2770	3030	3420	3190	3300	3420	3190	3300	---	---	---	3480	3400	3440	---	---	---	---	---
24	3290	2860	3110	3170	3050	3130	3170	3050	3130	---	---	---	3490	3400	3440	---	---	---	---	---
25	3250	2620	3020	3390	3340	3370	3390	3340	3370	---	---	---	3470	3360	3420	---	---	---	---	---
26	3200	2900	3100	3410	3350	3380	3410	3350	3380	---	---	---	3440	3380	3420	---	---	---	---	---
27	3160	3100	3140	3380	3070	3330	3380	3070	3330	---	---	---	3460	3080	3330	---	---	---	---	---
28	3310	2970	3170	3370	3140	3270	3370	3140	3270	---	---	---	3460	3310	3380	---	---	---	---	---
29	---	---	---	---	3350	3370	---	3350	3370	---	---	---	3490	3370	3430	---	---	---	---	---
30	---	---	---	3410	2780	3120	3410	2780	3120	---	---	---	3560	3450	3490	---	---	---	---	---
31	---	---	---	3410	3170	3300	---	---	---	---	---	---	3500	3130	3420	---	---	---	---	---
MONTH	3760	2620	3100	3440	2600	3300	3780	2870	3390	---	---	---	3760	3080	3450	---	---	---	---	---

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TABLE 2.2.2.1-3

Index to USGS Gauging Stations Water Quality Data

<u>Station Designation</u>	<u>Computer Code</u>	<u>Page No.</u>
09304800	WU48	I-384
09306007	WU07	I-390
09306022	WU22	I-396
09306042	WU42	I-402
09306058	WU58	I-408
09306061	WU61	I-414
09306200	WU00	I-420
09306222	WU62	I-427
09306255	WU55	I-432

Data were not available for the following seven stations:

09306015
09306025
09306028
09306033
09306036
09306039
09306050
09306052

WATER QUALITY DATA

DATE	ALKA- LITY FIELD (MG/L AS CAC03) (00410)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01104)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00602)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	RARIUM, DIS- SOLVED (UG/L AS RA) (01005)	RICAL- ROMATE FET-FLD (MG/L AS MC03) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71470)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE FET-FLD (MG/L AS C03) (00445)
JUN * 1981	--	--	--	--	--	--	--	20	--	--	62	--
JUL	--	--	--	--	--	--	--	30	--	--	77	--
AUG	--	--	--	--	--	--	--	40	--	<1	84	--
SEP	--	20	.130	1	--	--	--	20	--	--	77	--
OCT	--	--	--	--	--	--	--	--	--	--	--	--
NOV	--	--	--	--	--	--	--	--	--	--	--	--
DEC	--	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW WEEKER, CO.

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMEN. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
JUN . 1981	--	21	--	--	--	--	--	--	.1	20	--
1P...	--	30	--	--	--	--	--	--	.2	17	--
JUL	--	34	0	--	--	5	--	--	.3	22	0
2P...	42	23	--	--	--	--	--	--	.2	10	--
AUG	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
OCT	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	LITHIUM NIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM NIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE NIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE BLUE ACTIVE SUR- STANCF (MG/L) (38260)	MOLYB- DENUM NIS- SOLVED (UG/L AS MO) (01060)	NITRO- GFN NITRATE NIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GFN NITRATE NIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON + INORG + ORGANIC NIS- SOLVED (MG/L AS C) (00682)	CARBON INORG- GANIC NIS- SOLVED (MG/L AS C) (00691)

JUN 1981

19...

JUL

29...

AUG

26...

OCT

02...

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW WEEKER, CO.

WATER QUALITY DATA

DATE	CAMRON, TOTAL (MG/L) AS C) (00490)	PHOS- PHATE, ORTHOPHOS- PHATE, DTS- SOLVED (MG/L) AS P04 (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1981	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
AUG	--	--	--	--	--	--	--	--	--	--	--
26...	--	.03	.00	.00	.00	.00	.00	.00	.00	.00	0
OCT	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	HEPTA- CHLOR- TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXYDE TOTAL (UG/L) (39420)	PCR, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DT- AZINON, TOTAL (UG/L) (39570)	METHYL PAPA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN • 1981	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
4UG	--	--	--	--	--	--	--	--	--	--	5
24...	.00	.00	.00	.00	.00	.00	.00	--	--	--	--
OCT	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09304800 - WHITE RIVER BELOW MEKKER, CO.

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (009345)	SELF- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	STILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L AS SR) (01090)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
------	---	--	---	---	--	--	--	---	--	--

JUN , 1981

18...

JUL

28...

AUG

26...

OCT

02...

1.7	--	15	26	344	--	110	--	--	--	--
1.5	--	16	34	440	--	150	--	--	--	--
2.1	1	15	45	503	--	180	--	7	--	--
1.4	--	14	29	413	--	150	--	--	--	--

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS (00410)	ALUM- INUM. DIS- SOLVED (UG/L AS AL) (01105)	NITRO- GEN. AMMONIA DIS- SOLVED (MG/L AS N) (00508)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM. DIS- SOLVED (UG/L AS RA) (01005)	BICAP- RONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND. RIO- CHEM- ICAL. 5 DAY (MG/L) (00310)	BORON. DIS- SOLVED (UG/L AS R) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
JUN 09...	--	--	.090	2	--	--	--	210	--	--	78	--
JUN 23...	490	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	10	.070	2	200	--	--	260	.20	<1	66	--
AUG 04...	--	--	.080	3	--	--	--	220	--	--	72	--
SEP 15...	--	--	.080	2	--	--	--	230	--	--	69	--
SEP 25...	520	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, NIS- SOLVED (MG/L) AS CL (00940)	CHRO- MIUM, NIS- SOLVED (UG/L) AS CR (01030)	COLI- FORM, FECAL, 0.45 UM-WF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, NIS- SOLVED (UG/L) AS CU (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN (00723)	STREP- TOCOCCI FFCAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, NIS- SOLVED (MG/L) AS F (00950)	IRON, NIS- SOLVED (UG/L) AS FF (01046)	LEAD, NIS- SOLVED (UG/L) AS PB (01049)
JUN 00...	--	12	--	--	--	--	--	--	.9	90	--
JUN 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	27	13	10	--	250	2	--	--	1.0	20	2
AUG 04...	--	13	--	--	--	--	--	--	.9	13	--
SEP 15...	--	14	--	--	--	--	--	--	1.0	13	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 12/22/81
DISTRICT CODE 08

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L) AS LI (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	WANGA- MESF, DIS- SOLVED (UG/L) AS MN (01054)	MERCURY DIS- SOLVED (UG/L) AS HG (71890)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MO (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS NO3 (71851)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L) AS C (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L) AS C (00691)
JUN • 1981											
09...	--	54	200	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	20	49	80	.0	--	<10	--	--	--	--	--
AUG											
04...	--	49	52	--	--	--	--	--	--	--	--
SEP											
15...	--	53	200	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

WATER QUALITY DATA

DATE	CAPRON, TOTAL (MG/L AS C) (90690)	PHOS- PHATE, ORTHOPHOS- PHATE, DIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- FLDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN • 1981											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
SEP											
15...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

WATER QUALITY DATA

DATE	HEPTA- CHLOR. TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCR. TOTAL (UG/L) (39516)	MALA- THION. TOTAL (UG/L) (39530)	PARA- THION. TOTAL (UG/L) (39540)	DI- ATINON. TOTAL (UG/L) (39570)	METHYL- PARA- THION. TOTAL (UG/L) (39600)	2,4-D. TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN + 1981											
09...	--	--	--	--	--	--	--	--	--	--	1
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	0
08...	--	--	--	--	--	--	--	--	--	--	3
04...	--	--	--	--	--	--	--	--	--	--	--
SFO	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	POTAS- SIUM, NIS- SOLVED (MG/L AS K) (00935)		SELF- NIUM, DIS- SOLVED (UG/L AS SF) (01145)		SILICA, NIS- SOLVED (MG/L AS ST02) (00955)		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)		SUM OF CONSI- TUENTS, NIS- SOLVED (MG/L AS SR) (70301)		STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)		SULFATE NIS- SOLVED (MG/L AS S04) (00945)		SULFIDE DIS- SOLVED (MG/L AS S) (00746)		ZINC, DIS- SOLVED (UG/L AS ZN) (01090)		GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)		GROSS RETA, DIS- SOLVED (PCI/L AS CS-137) (03515)		
JUN , 1981																							
09...	3.0	--	--	17	--	--	140	--	836	--	--	--	230	--	--	--	--	--	--	--	--	--	
23...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUL																							
07...	2.4	0	15	140	--	742	1600	200	--	5	3	49.4	--	--	--	--	--	--	--	--	--	--	
AUG																							
04...	2.4	--	14	140	--	761	--	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SEP																							
15...	3.2	--	16	140	--	799	--	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

WATER QUALITY DATA

DATE	ALKALINITY		ALUMINUM		NITROGEN		AMMONIA		ARSENIC		BARIUM		BICARBONATE		OXYGEN DEMAND		BORON		BROMIDE		CADMIUM		CALCIUM		CARBONATE	
	FIELD	AS	DIS-SOLVED	AS AL	DIS-SOLVED	AS N	DIS-SOLVED	AS N	DIS-SOLVED	AS AS	DIS-SOLVED	AS RA	AS CO3	AS CO3	5 DAY	ICAL	DIS-SOLVED	AS R	DIS-SOLVED	AS RA	DIS-SOLVED	AS CO	DIS-SOLVED	AS CA	FFI-FLD	AS CO3
	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
	(00410)	(00410)	(01104)	(01104)	(00404)	(00404)	(01000)	(01000)	(01000)	(01000)	(01005)	(01005)	(00440)	(00440)	(00310)	(00310)	(01020)	(01020)	(71470)	(71470)	(01025)	(01025)	(00915)	(00915)	(00445)	(00445)
JUN 1981	--	--	--	--	.080	.080	1	1	1	1	--	--	--	--	--	--	80	--	--	--	--	--	91	--	--	--
JUL 09...	--	--	0	--	.110	.110	1	1	1	1	100	--	--	--	--	--	270	--	.20	--	<1	--	89	--	--	--
JUL 07...	--	--	--	--	.140	.140	2	2	2	2	--	--	--	--	--	--	70	--	--	--	--	--	90	--	--	--
AUG 04...	--	--	--	--	.090	.090	1	1	1	1	--	--	--	--	--	--	70	--	--	--	--	--	87	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CH2O- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FFCAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCI FECAL, (COLS. PFR 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
JUN 9 1991	--	5.9	--	--	--	--	--	--	.2	<10	--
JUL 09...	--	6.1	10	--	K61	2	--	--	.2	10	3
JUL 07...	21	5.8	--	--	--	--	--	--	.5	<10	--
AUG 04...	--	1?	--	--	--	--	--	--	.5	<10	--
SEP 15...	--		--	--	--	--	--	--			

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGNE- SIUM DIS- SOLVED (MG/L AS MG) (00225)	MANGA- NESE DIS- SOLVED (UG/L AS MN) (01054)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LFNF RLUF ACTIVE SUR- STANCE (MG/L) (38260)	MOLYB- DENUM DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON INORG + ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON INOR- GANIC DIS- SOLVED (MG/L AS C) (00691)
JUN * 1941											
09...	--	69	10	--	--	--	--	--	--	--	--
JUL											
07...	20	73	5	.0	--	<10	--	--	--	--	--
AUG											
04...	--	71	4	--	--	--	--	--	--	--	--
SEP											
15...	--	71	2	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

WATER QUALITY DATA

[illegible]

WATER QUALITY DATA

DATE	HFPTA- CHLOR, TOTAL (UG/L) (39410)	HFPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCH, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	NT- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39590)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	STLVFX, TOTAL (UG/L) (39750)	PHENOLS (UG/L) (32730)
JUN , 1981	--	--	--	--	--	--	--	--	--	--	4
09...	--	--	--	--	--	--	--	--	--	--	0
JUL	--	--	--	--	--	--	--	--	--	--	1
07...	--	--	--	--	--	--	--	--	--	--	1
AUG	--	--	--	--	--	--	--	--	--	--	1
04...	--	--	--	--	--	--	--	--	--	--	1
SEP	--	--	--	--	--	--	--	--	--	--	1
15...	--	--	--	--	--	--	--	--	--	--	1

WATER QUALITY DATA

DATE	POTAS- SIUM.		SELE- NIUM.		SILICA.		SODIUM.		SUM OF CONSTITUENTS.		STRON- TIUM.		SULFATE		SULFIDE		ZINC.		GROSS ALPHA.		GROSS BETA.	
	DIS- SOLVED (MG/L AS K)	AS K	DIS- SOLVED (UG/L AS SE)	AS SE	DIS- SOLVED (MG/L AS)	AS	DIS- SOLVED (MG/L AS NA)	AS NA	DIS- SOLVED (MG/L AS)	AS	DIS- SOLVED (UG/L AS S)	AS S	DIS- SOLVED (MG/L AS S)	AS S	DIS- SOLVED (MG/L AS S)	AS S	DIS- SOLVED (UG/L AS ZN)	AS ZN	DIS- SOLVED (PC/L AS)	AS	DIS- SOLVED (PC/L AS)	AS
JUN • 1981	1.2		--		16		120		919		--		360		--		--		--		--	
JUL	1.1		1		17		130		948		2800		390		--		6		.3		<10	
AUG	1.2		--		16		120		901		--		350		--		--		--		--	
SEP	1.3		--		14		120		897		--		340		--		--		--		--	

WATER QUALITY DATA

DATE	ALKALINITY		ALUMINUM		NITROGEN		AMMONIA		ARSENIC		BARIUM		RICKAR-		OXYGEN		BORON		BROMIDE		CADMIUM		CALCIUM		CAR-					
	FIELD	(MG/L)	DIS-	SOLVED	DIS-	SOLVED	DIS-	SOLVED	DIS-	SOLVED	DIS-	SOLVED	FT-FID	(MG/L)	FT-FID	AS	HC03	(00440)	AS B	(01020)	AS HR	(MG/L)	AS CD	(01025)	AS CA	(00915)	FET-FLD	(MG/L)	AS C03	(00445)
JUN 01 1981	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 01 1981	--	10	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JUL 07 1981	--	10	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AUG 04 1981	--	--	--	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
SEP 15 1981	--	--	--	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330	0.330

WATER QUALITY DATA

DATE	OXYGEN DEMAND CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, JMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE, DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCCI FECAL, PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
JUN * 1981	--	6.9	--	--	--	--	--	--	14	20	--
09...	--		--	--	--	--	--	--			--
JUL	--	7.2	10	--	--	2	--	--	14	40	3
01...	--	7.2	10	--	--	3	--	--	14	<10	3
07...	23										
AUG	--	8.0	--	--	--	--	--	--	2.9	34	--
04...	--		--	--	--	--	--	--			--
SEP	--	12	--	--	--	--	--	--	19	20	--
15...	--		--	--	--	--	--	--			--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 00304042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. DISTRICT CODE 0A PROCESS DATE 12/22/81

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01054)	MERCURY DIS- SOLVED (UG/L AS HG) (71990)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L AS C) (00691)

JUN 9, 1981

09...

JUL

01...

07...

AUG

04...

SFD

15...

09...	--	6.5	8	--	--	--	--	--	--	--	--
JUL	40	7.6	0	.0	--	6	4.0	.26	--	--	--
01...	30	8.3	3	.0	--	<10	--	--	--	--	--
07...	--	7.7	6	--	--	--	--	--	--	--	--
AUG	--	7.2	0	--	--	--	--	--	--	--	--
04...	--										
SFD											
15...											

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO.

WATER QUALITY DATA

DATE	CARBON TOTAL (MG/L) AS C (00690)	PHOS- PHATE OPTHO NIS- SOLVED (MG/L) AS P04 (00660)	ALDRIN TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE TOTAL (UG/L) (39350)	DDD TOTAL (UG/L) (39360)	DDT TOTAL (UG/L) (39365)	DI- ELDRIN TOTAL (UG/L) (39370)	ENDRIN TOTAL (UG/L) (39390)	TOX- APHENE TOTAL (UG/L) (39400)
JUN , 1981	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
JUL	--	.12	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
AUG	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
SEP	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	HEPTA- CHLOR- EPOXIDE TOTAL (UG/L) (39410)	HEPTA- CHLOR TOTAL (UG/L) (39420)	PCR, TOTAL (UG/L) (39514)	MAL- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN • 1991	--	--	--	--	--	--	--	--	--	--	2
09...	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	0
07...	--	--	--	--	--	--	--	--	--	--	0
08...	--	--	--	--	--	--	--	--	--	--	0
AUG	--	--	--	--	--	--	--	--	--	--	0
04...	--	--	--	--	--	--	--	--	--	--	0
SFP	--	--	--	--	--	--	--	--	--	--	0
15...	--	--	--	--	--	--	--	--	--	--	0

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)		SELF- NIUM, DIS- SOLVED (UG/L AS SF) (01145)		STILICA, DIS- SOLVED (MG/L AS SI02) (00955)		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)		SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L AS SP) (01080)		STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)		SULFATE DIS- SOLVED (MG/L AS S04) (00945)		SULFIDE DIS- SOLVED (MG/L AS S) (00746)		ZINC, DIS- SOLVED (UG/L AS ZN) (01090)		GROSS ALPHA, SUSP. TOTAL (PCT/L AS U-NAT) (01516)		GROSS RFTA, DIS- SOLVED (PCI/L AS CS-137) (03515)	
JUN • 1981																						
09...	2.8	--	30	1290	490	--	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL																						
01...	2.4	0	28	1230	480	890	110	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
07...	2.0	0	30	1290	520	1100	95	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--
AUG																						
04...	2.0	--	26	1150	480	--	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SFP																						
15...	3.7	--	35	1400	510	--	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	ALKALINITY FIELD AS		ALUMINUM DIS-SOLVED (UG/L)		NITROGEN AMMONIA DIS-SOLVED (MG/L)		ARSENIC DIS-SOLVED (UG/L)		BARIUM DIS-SOLVED (UG/L)		BICARBONATE FET-FLD AS HCO3 (MG/L)		OXYGEN DEMAND BIO-CHEMICAL 5 DAY (MG/L)		BORON DIS-SOLVED (UG/L)		BROMIDE DIS-SOLVED (MG/L)		CADMIUM DIS-SOLVED (UG/L)		CALCIUM DIS-SOLVED (MG/L)		CARBONATE FET-FLD (MG/L)	
	CAC03 (00410)	AS AL (01106)	AS AL (01106)	AS AL (01106)	AS N (00500)	AS AS (01000)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	AS RA (01005)	
JUN + 1981	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
09...	460	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUL	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AUG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SEP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
15...	440	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HTGH LEVEL) (MG/L) (00340)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COLIFORM, FFCAL, 0.45 UM-MF (COLS./100 ML) (31616)	COLIFORM, TOTAL, TWMMEN. (COLS. PFR 100 ML) (31501)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	CYANIDE, DIS-SOLVED (MG/L AS CN) (00723)	STREPTOCOCCI, FECAL, (COLS. PFR 100 ML) (31679)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
JUN 9 1981											
09...	--	10	--	--	--	--	--	--	.4	<10	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	24	12	10	--	180	3	--	--	.5	<10	2
AUG 04...	--	11	--	--	--	--	--	--	.5	12	--
SEP 15...	--	11	--	--	--	--	--	--	.6	11	--
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE- DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71490)	METHY- LENE PLUE ACTIVE SUR- STANCE (MG/L) (34260)	MOLYB- DENUM- DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN- NITRATE DIS- SOLVED (MG/L AS NO3) (71841)	NITRO- GEN- NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	CARBON- INORG- ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON- INORG- ORGANIC DIS- SOLVED (MG/L AS C) (00691)
JUN # 1981									
09...	--	71	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
JUL									
07...	20	77	4	--	<10	--	--	--	--
AUG									
04...	--	72	6	--	--	--	--	--	--
SEP									
15...	--	69	3	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--

PROCESS DATE 12/22/01
DISTRICT CODE 09

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

WATER QUALITY DATA

[illegible]

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 12/22/81
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTA- CHLOR- TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN • 1941											
09...	--	--	--	--	--	--	--	--	--	--	3
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	5
AUG											0
04...	--	--	--	--	--	--	--	--	--	--	1
SEP											--
15...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)		SELF- NIUM, DIS- SOLVED (UG/L AS SF) (01145)		STLICA, DIS- SOLVED (MG/L AS SI02) (00955)		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)		SUM OF CONSTITUENTS, DIS- SOLVED (MG/L AS NA) (70301)		STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)		SULFIDE DIS- SOLVED (MG/L AS S) (00744)		ZINC, DIS- SOLVED (UG/L AS ZN) (01030)		GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)		GROSS ALPHA, DIS- SOLVED (PCI/L AS CS-137) (03515)		
JUN • 1981																							
09...	2.0	--	--	15	120	--	--	--	899	--	--	--	360	--	--	--	--	--	--	--	--	--	
23...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
JUL	1.9	1	16	140	944	3100	380	340	921	809	300	300	300	300	300	300	300	300	300	300	300	300	
AUG	2.3	--	17	130	921	809	300	300	921	809	300	300	300	300	300	300	300	300	300	300	300	300	
04...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SFP	1.2	--	16	110	809	300	300	300	809	300	300	300	300	300	300	300	300	300	300	300	300	300	
15...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 09306061 - PICEANCE CREEK AR HUNTER C, NEAR RIO BLANCO, CO. DISTRICT CODE 08

PROCESS DATE 12/22/81

WATER QUALITY DATA

DATE	ALKALINITY		ALUMINUM		NITROGEN		ARSENIC		BARIUM		BICARBONATE		OXYGEN DEMAND		BORON		BROMIDE		CADMIUM		CALCIUM		CARBONATE	
	FIELD	AS	DIS-SOLVED	AS AL	AMMONIA	DIS-SOLVED	DIS-SOLVED	AS	DIS-SOLVED	AS	FET-FLD	AS	5 DAY	ICAL	DIS-SOLVED	AS	DIS-SOLVED	AS	DIS-SOLVED	AS	DIS-SOLVED	AS	FET-FLD	AS
	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
	(00410)	(00410)	(01106)	(01106)	(00504)	(01000)	(01000)	(01000)	(01005)	(00440)	(00310)	(01020)	(71470)	(01025)	(00915)	(00445)								
JUN • 1981																								
02...	--	--	--	--	.110	2	--	--	--	--	--	250	--	--	72	--	--	--	--	--	--	--	--	--
23...	580	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL																								
07...	--	--	0	--	.100	3	200	--	--	--	--	250	.20	<1	63	--	--	--	--	--	--	--	--	--
AUG																								
04...	--	--	--	--	.150	3	--	--	--	--	--	260	--	--	65	--	--	--	--	--	--	--	--	--
SEP																								
15...	--	--	--	--	.100	2	--	--	--	--	--	240	--	--	76	--	--	--	--	--	--	--	--	--
25...	570	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 09306061 - PICEANCE CREEK AT HUNTER C. NEAR RIO BLANCO, CO. DISTRICT CODE 08
 PROCESS DATE 12/22/81

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM.		COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)		STREP- TOCOCOI FECAL, (COLS. PFR 100 ML) (31579)		FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00350)		IRON, DIS- SOLVED (UG/L) AS FE) (01046)		LEAD, DIS- SOLVED (UG/L) AS PB) (01049)	
				FORM. FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	FORM. TOTAL, IMMED. (COLS. PFR 100 ML) (31501)											
JUN , 1981	--	10	--	--	--	--	--	--	--	--	1.6	--	10	--	--	--
00...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07...	27	12	10	--	K65	2	--	--	--	--	1.5	--	10	--	2	--
AUG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	11	--	--	--	--	--	--	--	--	1.6	--	11	--	--	--
SFD	--	16	--	--	--	--	--	--	--	--	.8	--	19	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	LITHIUM		MAGNE- SIUM		MANGA- NESE		MERCURY		METAL- LENE		MOLYB- DENUM		NITRO- GEN		NITRO- GEN		NITRO- GEN		CARBON- ORGANIC		CARBON- ORGANIC		CARBON- ORGANIC	
	DIS- SOLVED (UG/L AS LI) (01130)	DIS- SOLVED (MG/L AS MG) (00025)	DIS- SOLVED (UG/L AS MN) (01056)	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS NO) (01060)	DIS- SOLVED (MG/L AS NO) (71851)	DIS- SOLVED (MG/L AS NO) (71856)	DIS- SOLVED (MG/L AS NO) (00550)	DIS- SOLVED (MG/L AS NO) (00691)	DIS- SOLVED (MG/L AS NO) (00692)	DIS- SOLVED (MG/L AS NO) (00691)	DIS- SOLVED (MG/L AS NO) (00692)	DIS- SOLVED (MG/L AS NO) (00691)	DIS- SOLVED (MG/L AS NO) (00692)	DIS- SOLVED (MG/L AS NO) (00691)	DIS- SOLVED (MG/L AS NO) (00692)	DIS- SOLVED (MG/L AS NO) (00691)	DIS- SOLVED (MG/L AS NO) (00692)	DIS- SOLVED (MG/L AS NO) (00691)	DIS- SOLVED (MG/L AS NO) (00692)	DIS- SOLVED (MG/L AS NO) (00691)	DIS- SOLVED (MG/L AS NO) (00692)	DIS- SOLVED (MG/L AS NO) (00691)	DIS- SOLVED (MG/L AS NO) (00692)
JUN 9 1961	--	70	90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	20	65	30	.0	<10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 04...	--	66	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	74	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00490)	PHOS- PHATE, ORTHOP. DTS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDO, TOTAL (UG/L) (39360)	DDF, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- FLORIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1981											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	--	--	--	--	--	--	--	--	--	--	--
SFP											
15...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (30410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (30420)	PCR, TOTAL (UG/L) (30516)	MALA- THION, TOTAL (UG/L) (30530)	PARA- THION, TOTAL (UG/L) (30540)	DI- AZINON, TOTAL (UG/L) (30570)	METHYL PARA- THION, TOTAL (UG/L) (30600)	2,4-D, TOTAL (UG/L) (30730)	2,4,5-T TOTAL (UG/L) (30740)	SILVEX, TOTAL (UG/L) (30740)	PHENOLS (UG/L) (32730)
JUN 9 1981	--	--	--	--	--	--	--	--	--	--	2
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	0
07...	--	--	--	--	--	--	--	--	--	--	0
AUG	--	--	--	--	--	--	--	--	--	--	0
04...	--	--	--	--	--	--	--	--	--	--	2
SEP	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 09306061 - PICEANCE CREEK AR HUNTER C. NEAR RIO BLANCO, CO. DISTRICT CODE 08 PROCESS DATE 12/22/81

WATER QUALITY DATA

DATE	POTAS- SIUM		SILICA		SODIUM		SOLIDS		STRON- TIUM		SULFATE		SULFIDE		ZINC		GROSS ALPHA		GROSS BETA	
	DIS- SOLVED (MG/L)	AS SF (01145)	DIS- SOLVED (MG/L)	AS ST02 (00955)	DIS- SOLVED (MG/L)	AS NA (00930)	DIS- SOLVED (MG/L)	AS (70301)	DIS- SOLVED (UG/L)	AS SP (01040)	DIS- SOLVED (MG/L)	AS SO4 (00945)	DIS- SOLVED (MG/L)	AS S (00746)	DIS- SOLVED (UG/L)	AS ZN (01000)	SUSP. TOTAL (PCI/L)	AS (01516)	DIS- SOLVED (PCI/L)	AS (03515)
JUN , 1981																				
09...	3.2	--	17	--	200	--	1060	--	--	--	350	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL																				
07...	2.9	1	17	--	200	--	983	2200	--	--	330	--	--	--	10	--	.4	--	<11	--
AUG																				
04...	3.0	--	17	--	190	--	965	--	--	--	310	--	--	--	--	--	--	--	--	--
SFP																				
15...	3.7	--	19	--	170	--	1010	--	--	--	350	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	ALKALINITY		ALUMINUM		NITROGEN		AMMONIA		ARSENIC		BARIUM		BICARBONATE		OXYGEN DEMAND		BROMIDE		CADMIUM		CALCIUM		CARBONATE	
	FIELD	AS	DIS-SOLVED	AS AL	DIS-SOLVED	AS N	DIS-SOLVED	AS N	DIS-SOLVED	AS AS	DIS-SOLVED	AS RA	FFET-FLD	AS HCO3	BIO-CHEMICAL	5 DAY	DIS-SOLVED	AS HR	DIS-SOLVED	AS CO	DIS-SOLVED	AS CA	FET-FLD	AS CO3
	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
	(00410)	(00410)	(01105)	(01105)	(00508)	(00508)	(01000)	(01000)	(01000)	(01000)	(01005)	(01005)	(00440)	(00440)	(00310)	(00310)	(01020)	(01020)	(01025)	(01025)	(00915)	(00915)	(00445)	(00445)
JUN 10, 1981	--	--	--	--	--	--	6	6	100	--	--	--	--	--	--	--	330	--	0	--	74	--	--	--
JUL 23, 1981	750	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 09, 1981	--	--	--	--	--	--	6	6	100	--	--	--	--	--	--	--	430	--	1	--	66	--	--	--
SEP 05, 1981	--	--	--	--	--	--	4	4	110	--	--	--	--	--	--	--	250	--	<1	--	65	--	--	--
SEP 25, 1981	730	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
 09306200 - PICEANCE CREEK BL RYAN GULCH, NR RTO BLANCO, CO. DISTRICT CODE 09

PROCESS DATE 12/22/81

WATER QUALITY DATA

DATE	OXYGEN DEMAND (MG/L) (00340)	CHLORINE DIS- SOLVED (MG/L) AS CL (00940)	CHROMIUM DIS- SOLVED (UG/L) AS CR (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31416)	COLI- FORM, TOTAL, IMMUNO, (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN (00723)	STREPTO- TOCOCO FECAL, (COLS. PER 100 ML) (31679)	FLUORIDE, DIS- SOLVED (MG/L) AS F (00950)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)
JUN • 1981											
10...	--	21	--	--	--	4	--	--	1.1	70	0
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	--	24	--	--	--	3	--	--	1.2	50	2
AUG											
05...	--	13	--	--	--	1	--	--	.9	12	0
SEP											
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGNE- SIUM DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71490)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN NITRATE DIS- SOLVED (MG/L AS NO3) (71451)	NITRO- GEN NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON INORG + ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON INOP- GANIC DIS- SOLVED (MG/L AS C) (00691)
JUN • 1981											
10...	10	110	210	.0	.00	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	20	110	160	.0	.10	--	--	--	--	--	--
4106											
05...	23	85	91	.0	.00	--	--	--	--	--	--
SFP											
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHOP, DISE- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDO, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRI, TOTAL (UG/L) (39380)	ENDRI, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN • 1981											
10...	--	.09	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	--	.28	--	--	--	--	--	--	--	--	--
AUG											
05...	--	.03	--	--	--	--	--	--	--	--	--
SFP											
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	HEPTA- CHLOR- TOTAL (UG/L) (39410)	HEPTA- CHLOR- FOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39514)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- ATINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN 9 1981	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	0
06...	--	--	--	--	--	--	--	--	--	--	--
AUG	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
SEP	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	HEPTA- CHLOR, EPOXIDE TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCR, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1981	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	0
06...	--	--	--	--	--	--	--	--	--	--	--
AUG	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
SEP	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)		SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)		SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)		SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (UG/L AS SR) (01080)		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)		SULFIDE DIS- SOLVED (MG/L AS S) (00746)		ZINC, DIS- SOLVED (UG/L AS ZN) (01090)		GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)		GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	

JUN • 1981

10... 3.3

23... --

JUL

09... 2.8

AUG

05... 2.8

SEP

25... --

WATER QUALITY DATA

DATE	ALKA- LITY FIELD (MG/L AS CAC03) (00410)	ALUM- INUM. DIS- SOLVED (UG/L AS AL) (01106)	NITRO- GEN. AMMONIA DIS- SOLVED (MG/L AS N) (00604)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM DIS- SOLVED (UG/L AS BA) (01005)	RICAL- RONATE FET-FLD (MG/L AS HCO3) (00440)	OXYGEN DEMAND BIO- CHEM- ICAL 5 DAY (MG/L) (00310)	BROMINE DIS- SOLVED (UG/L AS BR) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71470)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE FET-FLD (MG/L AS CO3) (00445)
JUN • 1981												
10...	--	--	.080	7	100	--	--	890	--	0	46	--
23...	1740	--	--	--	--	--	--	--	--	--	--	--
JUL												
09...	--	--	--	6	100	--	--	720	--	0	32	--
AUG												
05...	--	--	--	5	200	--	--	580	--	0	48	--
26...	--	10	.170	5	--	--	--	600	--	0	44	--
SEP												
08...	--	--	--	7	200	--	--	730	--	0	53	--
25...	1330	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE PLUF ACTIVE SUR- STANCE (MG/L) (38260)	MOLYB- DENUM DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN NITRATE DIS- SOLVED (MG/L AS NO3) (71451)	NITRO- GEN NITRITE DIS- SOLVED (MG/L AS NO2) (71456)	OIL AND GREASE (MG/L) (00550)	CARBON INORG ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON INOR- GANIC DIS- SOLVED (MG/L AS C) (00691)
JUN , 1981											
10...	130	98	40	.0	.10	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	80	95	20	.1	.10	--	--	--	--	--	--
AUG											
05...	80	100	10	.0	.10	--	--	--	--	--	--
24...	80	99	20	.0	.10	20	.40	.07	--	--	--
SEP											
09...	100	65	20	.0	.10	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	CAPRON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHOPHOS- PHATE, DIPHS- PHATE, TOTAL (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1981											
10...	--	.12	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	--	.06	--	--	--	--	--	--	--	--	--
AUG											
05...	--	.31	--	--	--	--	--	--	--	--	--
24...	--	.03	.00	.00	.00	.00	.00	.00	.00	.00	0
SFO											
08...	--	1.1	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	HEPTA- CHLOR- TOTAL (UG/L) (39410)	HEPTA- CHLOR- EPOXIDE TOTAL (UG/L) (39420)	PCR, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39740)	PHENOLS (UG/L) (32730)
JUN, 1981											
10...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
09...	--	--	--	--	--	--	--	--	--	--	1
AUG											
05...	--	--	--	--	--	--	--	--	--	--	--
24...	.00	.00	.00	.00	.00	.00	.00	--	--	--	0
SEP											
09...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306222 - PISCANCE CREEK AT WHITE RIVER, CO.

PROCESS DATE 12/22/81
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTIT- TUENTS, DIS- SOLVED (MG/L AS SP) (01080)	SULFATE, DIS- SOLVED (MG/L AS S04) (00945)	SULFIDE, DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS 7N) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-DAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JUN • 1981									
10...	4.3	2	9.3	1100	3300	1700	460	--	--
23...	--	--	--	--	--	--	--	--	--
JUL									
09...	4.0	1	4.3	740	2420	220	530	--	--
AUG									
05...	4.7	1	11	720	2350	2200	550	--	--
26...	4.2	1	10	620	2100	--	560	4.1	<24
SEP									
08...	6.9	2	10	810	2440	1300	500	--	--
25...	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	ALKALINITY (MG/L AS CaCO ₃)	ALUMINUM (MG/L AS AL)	NITROGEN (MG/L AS N)	AMMONIA (MG/L AS N)	ARSENIC (MG/L AS AS)	BARIUM (MG/L AS BA)	BORON (MG/L AS B)	BROMINE (MG/L AS BR)	CADMIUM (MG/L AS CD)	CALCIUM (MG/L AS CA)	CARBONATE (MG/L AS CO ₃)
JUL * 1981	--	--	--	--	--	--	790	--	--	25	--
10...	--	--	--	--	--	--	750	--	0	19	--
AUG	--	10	.150	6	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	OXYGEN DEMAND - CHEMICAL (HIGH LEVEL) (MG/L) AS CL) (00340)	CHLORIDE - DIS-SOLVED (MG/L) AS CL) (00940)	CHROMIUM - DIS-SOLVED (UG/L) AS CR) (01030)	CALCIUM - FORM, FECAL, 0.45 UM-MF (COLS./100 ML) (31416)	CALCIUM - FORM, TOTAL, IMMED. (COLS. BFR 100 ML) (31501)	COPPER - DIS-SOLVED (UG/L) AS CU) (01040)	CYANIDE - DIS-SOLVED (MG/L) AS CN) (00723)	STREPTOCOCCI - FECAL (COLS. BFR 100 ML) (31679)	FLUORIDE - DIS-SOLVED (MG/L) AS F) (00950)	IRON - DIS-SOLVED (UG/L) AS FE) (01046)	LEAD - DIS-SOLVED (UG/L) AS PB) (01049)
JUL 10, 1981	--	130	--	--	--	--	--	--	2.3	--	--
AUG 26, 1981	73	140	0	--	--	4	--	--	1.9	40	2

WATER QUALITY DATA

DATE	LITHIUM		MANGNESE		MERCURY		METHY-		MOLYB-		NITRO-		NITRO-		CARRON,		CARRON,	
	DIS- SOLVED (UG/L) AS LI (01130)	SOLVED (MG/L) AS MG (00925)	DIS- SOLVED (UG/L) AS MN (01056)	NESE DIS- SOLVED (UG/L) AS MG (01056)	MERCURY DIS- SOLVED (UG/L) AS HG (71490)	BLUE ACTIVE SOL- STANCE (MG/L) (34260)	DIS- SOLVED (UG/L) AS MO (01060)	NITRATF DIS- SOLVED (MG/L) AS NO3 (71851)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	GEN, NITRATE DIS- SOLVED (MG/L) AS NO2 (71855)	

JUL 1981

10...

11/8

26...

100	99	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	99	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	99	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PROCESS DATE 12/22/81
DISTRICT CODE 08

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

WATER QUALITY DATA

[illegible]

PROCESS DATE 12/22/81
DISTRICT CODE 08

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

WATER QUALITY DATA

[illegible]

TABLE 2.2.2.1-4

Remark Codes for USGS
Water Quality Data

<u>CHARACTER</u>	<u>REMARK</u>
E	Estimated Value
<	Actual value is known to be less than value shown
>	Actual value is known to be greater than value shown
M	Presence of material verified but not quantified
N	Presumptive evidence of presence of material
ND	Material specifically analyzed for but not detected
K	Results based on colony count outside the acceptable range (non-ideal coloy count)

2.2.2.2 Spring and Seeps

Water quality data for Springs and Seeps are presented in this section, Table 2.2.2.2-1. Locations of Springs and Seeps around the C-b Tract are shown in Figure 2.2.1.2-1.

Data are presented in this section for the following stations:

<u>Station Designation</u>	<u>Computer Code</u>
CB S-1	WS01
CB S-2	WS02
CB S-3	WS03
CB S-4	WS04
CB S-6	WS06
CB S-7	WS07
CB S-9	WS09
CB S-10 (W-3)*	WS10
S-11 (S-101)*	WS11
CB Seep A	WS12
CB S-102	WS36

* Station designations with parenthesis indicate same spring sampled by both project and State personnel.

TABLE 2.2.2.2 - 1

PAGE 1

CB-TRACT
WATER QUALITY PARAMETERS
SPRINGS AND SEEPS
FOR SAMPLE DATA SHOWN

SEEPS AND SPRINGS	YR	40	FFCAL COLIF. COLONY /100ML	TOTAL COLIF. COLONY /100ML	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	TOTAL ALPHA PCI/L	TOTAL BETA PCI/L	RADIUM 226 PCI/L	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WS01	01	10	-1.00	18.0	.20	-.00020	-.010	-.010	-.010	-.010	-.010	.020	-.020	-.05	-.020	-.02	.30
WS02	01	10	-1.00	5.0	.20	-.00020	-.010	-.010	-.010	-.010	-.010	.090	-.020	-.05	-.020	-.02	.20
WS03	01	10	-1.00	4.0	.07	-.00020	-.010	-.010	-.010	-.010	-.010	.020	-.020	-.05	-.020	-.02	.30
WS04	01	10	-1.00	20.0	.07	-.00020	-.010	-.010	-.010	-.010	-.010	-.020	-.020	-.05	-.030	-.02	.20
WS05	01	10	-1.00	20.0	.07	-.00020	-.010	-.010	-.010	-.010	-.010	-.020	-.020	-.05	-.020	-.02	.50
WS07	01	10	-1.00	2.0	.07	-.00020	-.010	-.010	-.010	-.010	-.010	-.020	-.020	-.05	-.020	-.02	.40
WS09	01	10	-1.00	21.0	.07	-.00020	-.010	-.010	-.010	-.010	-.010	-.020	-.020	-.05	-.020	-.02	.50
WS10	01	10	-1.00	17.0	.10	-.00020	-.010	-.010	-.010	-.010	-.010	-.030	-.020	-.05	-.020	-.02	.40
WS11	01	10	-1.00	10.0	.10	-.00020	-.010	-.010	-.010	-.010	-.010	-.020	-.020	-.05	-.020	-.02	.40
WS12	01	10	-1.00	13.0	.10	-.00020	-.010	-.010	-.010	-.010	-.010	-.020	-.020	-.05	-.020	-.02	1.50
WS35	01	10	-1.00	4.0	.10	-.00020	-.010	-.010	-.010	-.010	-.010	-.020	-.020	-.05	-.020	-.02	.20

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.2. - 1 (cont.)

PAGE 1

CH-TRACT
WATER QUALITY PARAMETERS
SPRINGS AND SEEP
FOR SAMPLE DATA SHOWN

SPRINGS AND SEEPS	Yr	MO	DO (MG/L)	NI (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHEN (MG/L)	K (MG/L)	B (MG/L)	TOTAL DISS SOLIDS (MG/L)	SR (MG/L)	SO4 (MG/L)	CD (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L)
WS01	01	10	-0.10	-0.20	2.00	-10.0	-0.010	1.7	-0.10	940.0	6.6	360.0	-0.10	7.4	-50.0	-0.020	-0.020
WS02	01	10	-0.10	-0.20	3.80	-10.0	-0.010	4.2	-0.10	830.0	2.7	350.0	-0.10	5.7	-50.0	-0.020	-0.020
WS03	01	10	-0.10	-0.20	2.20	-10.0	-0.010	2.1	-0.10	990.0	7.1	380.0	-0.10	7.4	-50.0	-0.020	-0.020
WS04	01	10	-0.10	-0.20	3.10	-10.0	-0.010	3.8	0.10	850.0	2.7	360.0	-0.10	6.3	-50.0	-0.020	-0.020
WS05	01	10	-0.10	-0.20	3.10	-10.0	-0.010	4.5	0.10	990.0	3.6	380.0	-0.10	11.0	-50.0	-0.020	-0.020
WS07	01	10	-0.10	-0.20	3.50	-10.0	-0.010	5.0	0.10	990.0	3.8	390.0	-0.10	11.0	-50.0	-0.020	-0.020
WS09	01	10	-0.10	-0.20	1.10	-10.0	-0.010	4.6	-0.10	930.0	3.5	390.0	-0.10	9.7	-50.0	-0.020	-0.020
WS10	01	10	-0.10	-0.20	0.90	-10.0	-0.010	3.8	-0.10	900.0	3.0	360.0	-0.10	10.0	-50.0	-0.020	-0.020
WS11	01	10	-0.10	-0.20	2.00	-10.0	-0.010	4.6	0.10	910.0	3.0	320.0	-0.10	11.0	-50.0	-0.020	-0.020
WS12	01	10	-0.10	-0.20	4.60	-10.0	-0.010	2.8	0.40	1000.0	2.4	240.0	-0.10	9.5	-50.0	-0.020	-0.020
WS36	01	10	-0.10	-0.20	3.30	-10.0	-0.010	4.2	-0.10	920.0	2.6	390.0	-0.10	6.4	-50.0	-0.020	-0.020

NOTE: - INDICATES LOSS FROM

TABLE 2.2.2.2 - 1 (cont.)

PAGE 1

CH-TRACT
WATER QUALITY PARAMETERS
SPRINGS AND SEEPS
FOR SAMPLE DATA SHOWN

SPRINGS AND SEEPS	YR	MO	TOTAL ALK (MG/L)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	HA (MG/L)	HC03 (MG/L)	CO3 (MG/L)	BOD (MG/L)	BR (MG/L)	HARDNESS (MG/L)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
			CA	CO3	AS N	AS	HA	HC03	CO3	BOD	BR	CA	NA	MG	CA	
WS01	01	10	430.0	-100	.100	-.020	-.50	360.0	68.0	-150.0	.400	560.0	130.0	80.0	93.0	2.388
WS02	01	5	410.0	-100	-.040	-.020	-.50	360.0	50.0	-150.0		540.0	130.0	74.0	95.0	2.431
WS02	01	10	410.0	-100	.100	-.020	-.50	330.0	84.0	-150.0	.400	530.0	120.0	72.0	93.0	2.271
WS03	01	10	450.0	-100	.050	-.020	-.50	400.0	46.0	-150.0	.500	610.0	140.0	87.0	99.0	2.477
WS04	01	5	410.0	-100	.050	-.020	-.50	380.0	34.0	-150.0	.400	550.0	130.0	75.0	97.0	2.410
WS04	01	10	420.0	-100	.050	-.020	-.50	370.0	48.0	-150.0	.400	540.0	120.0	73.0	94.0	2.257
WS05	01	5	500.0	-100	-.040	-.020	-.50	500.0	-1.0	-150.0	.500	630.0	150.0	87.0	110.0	2.595
WS05	01	10	510.0	-100	.070	-.020	-.50	470.0	36.0	-150.0	.500	640.0	140.0	89.0	110.0	2.407
WS07	01	5	440.0	-100	-.040	-.020	-.50	490.0	-1.0	-150.0	.500	640.0	130.0	88.0	110.0	2.242
WS07	01	10	490.0	-100	.040	-.020	-.50	490.0	-1.0	-150.0	.500	630.0	140.0	86.0	110.0	2.430
WS09	01	5	440.0	-100	-.040	-.020	-.50	490.0	-1.0	-150.0	.800	650.0	150.0	86.0	120.0	2.553
WS09	01	10	440.0	-100	.050	-.020	-.50	450.0	34.0	-150.0	.800	630.0	120.0	81.0	120.0	2.075
WS10	01	5	470.0	-100	-.040	-.020	-.50	490.0	48.0	-150.0	.600	610.0	140.0	81.0	110.0	2.471
WS10	01	10	470.0	-100	.050	-.020	-.50	470.0	-1.0	-150.0	.600	640.0	120.0	83.0	120.0	2.062
WS11	01	5	470.0	-100	-.040	-.020	-.50	430.0	44.0	-150.0	.600	610.0	130.0	81.0	110.0	2.294
WS11	01	10	440.0	-100	.040	-.020	-.50	420.0	58.0	-150.0	.600	620.0	120.0	79.0	120.0	2.089
WS12	01	5	570.0	-100	-.040	-.020	-.50	640.0	50.0	-150.0	.500	480.0	250.0	69.0	80.0	4.947
WS12	01	10	730.0	-100	.040	-.020	-.50	630.0	100.0	-150.0	.500	470.0	260.0	61.0	88.0	5.214
WS35	01	5	440.0	-100	-.040	-.020	-.50	360.0	82.0	-150.0	.700	580.0	140.0	80.0	100.0	2.532
WS35	01	10	440.0	-100	.040	-.020	-.50	360.0	80.0	-150.0	.700	600.0	130.0	80.0	110.0	2.302

NOTE: - INDICATES LESS THAN

2.2.2.3 Alluvial Wells

Quarterly water quality samples were taken for Alluvial Wells in July and October 1981 of this report period. These data are presented in Table 2.2.2.3-1.

TABLE 2.2.2.3 - 1

CH-TRACT
WATER QUALITY PARAMETERS
ALLUVIAL WELLS
FOR SAMPLE DATA SHOWN

WELL	Yr	Depth	FeCl ₃ COLIF /100ML	TOTAL COLIF /100ML	N KJFLD (MG/L)	HARDNESS (MG/L) CaCO ₃	ALPHA BETA PCI/L	TOTAL RADIUM 226 PCI/L	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	F (MG/L)	NI (MG/L)	CR (MG/L)
W001	01	7	-1.00	-1.0	-1.0	540.0			-0.0020	-0.010	-0.010	-0.020	1.00	-0.020	-0.020
W002	01	10	-1.00	-1.0	-1.0	600.0			-0.0020	-0.010	-0.010	-0.020	.50	-0.020	-0.020
W003	01	7	-1.00	-1.0	-1.0	640.0			-0.0020	-0.010	-0.010	-0.020	.40	-0.020	-0.020
W004	01	10	-1.00	-1.0	-1.0	640.0			-0.0020	-0.010	-0.010	-0.020	.50	-0.020	-0.020
W005	01	7	-1.00	-1.0	-1.0	580.0			-0.0020	-0.010	-0.010	-0.020	.40	-0.020	-0.020
W006	01	10	-1.00	-1.0	-1.0	490.0			-0.0020	-0.010	-0.010	-0.020	.40	-0.020	-0.020
W007	01	7	-1.00	-1.0	-1.0	550.0			-0.0020	-0.010	-0.010	-0.020	.50	-0.020	-0.020
W008	01	10	-1.00	-1.0	-1.0	420.0			-0.0020	-0.010	-0.010	-0.020	.10	-0.020	-0.020
W009	01	7	-1.00	-1.0	-1.0	570.0			-0.0020	-0.010	-0.010	-0.020	.20	-0.020	-0.020
W010	01	10	-1.00	-1.0	-1.0	570.0		-2.0	-0.0020	-0.010	-0.010	-0.020	.20	-0.020	-0.020
W011	01	7	-1.00	-1.0	-1.0	730.0			-0.0020	-0.010	-0.010	-0.020	.10	-0.020	-0.020
W012	01	10	-1.00	-1.0	-1.0	690.0	-4.0	8.0	-0.0020	-0.010	-0.010	-0.020	.20	.030	-0.020
W013	01	7	-1.00	-1.0	-1.0	250.0			-0.0020	-0.010	-0.010	-0.020	2.40	-0.020	-0.020
W014	01	10	-1.00	-1.0	-1.0	190.0			-0.0020	-0.010	-0.010	-0.020	13.00	.030	-0.020

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.3 - 1 (cont.)

CB-TRACT
WATER QUALITY PARAMETERS
ALLUVIAL WELLS
FOR SAMPLE DATA SHOWN

WELL	YR	MO	DAY	TOTAL DISS SOLIDS (MG/L)	OIL AND GREASE (MG/L)	COD (MG/L)	PHEN (MG/L)	K (MG/L)	CD (MG/L)	CU (MG/L)	SR (MG/L)	S04 (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	CL (MG/L)	FE (MG/L)
WA01	01	1	1	1200.0	-10.0	-50.0	-0.010	2.0	-0.010	-0.020	2.7	460.0	-0.020	-0.05	.300	18.0	-0.02
				1200.0	-10.0	-50.0	-0.010					410.0	-0.020	-0.05	.280	19.0	.02
WA02	01	7	010	950.0	-10.0	-50.0	-0.010	2.8	-0.010	-0.020	2.2	300.0	-0.020	-0.05	-0.020	14.0	-0.02
				930.0		-50.0	-0.010	1.9	-0.010	-0.020	3.5	330.0	-0.020	-0.05	-0.020	12.0	.02
WA03	01	7	-0.010	1000.0	-10.0	-50.0	-0.010	4.8	-0.010	-0.020	3.7	370.0	-0.020	-0.05	-0.020	12.0	-0.02
				990.0	-10.0	-50.0	-0.010	1.6	-0.010	-0.020	3.8	350.0	-0.020	-0.05	-0.020	12.0	.02
WA05	01	7	-0.010	910.0	-10.0	-50.0	-0.010	2.0	-0.010	-0.020	3.5	350.0	-0.020	-0.05	-0.040	13.0	-0.02
				950.0	-10.0	-50.0	-0.010	2.5	-0.010	-0.020	2.4	240.0	-0.020	-0.05	-0.020	14.0	.02
WA06	01	7	-0.010	910.0	-10.0	-50.0	-0.010	2.8	-0.010	-0.020	2.2	210.0	-0.020	-0.05	.100	16.0	-0.02
				930.0	-50.0	-50.0	-0.010	1.9	-0.010	-0.020	2.6	240.0	-0.020	-0.05	-0.080	14.0	.02
WA07	01	7	-0.010	740.0	-10.0	-50.0	-0.020	4.2	-0.010	-0.020	2.8	240.0	-0.020	-0.05	-0.020	17.0	-0.02
				610.0	-10.0	-50.0	-0.010	1.2	-0.010	-0.020	3.3	250.0	-0.020	-0.05	-0.020	18.0	.02
WA08	01	7	-0.010	610.0	-10.0	-50.0	-0.010	5.0	-0.010	-0.020	2.3	340.0	-0.020	-0.05	-0.020	6.3	-0.02
				650.0	-10.0	-50.0	-0.010	2.2	-0.010	-0.020	2.9	400.0	-0.020	-0.05	-0.020	7.0	.02
WA09	01	7	-0.010	790.0	-10.0	-50.0	-0.010	3.8	-0.010	-0.020	2.6	310.0	-0.020	-0.05	-0.020	6.4	-0.02
				1200.0	-10.0	-50.0	-0.010	1.0	-0.010	-0.020	2.9	280.0	-0.020	-0.05	-0.020	8.2	.02
WA12	01	7	-0.010	1100.0	-10.0	-50.0	-0.020	2.0	-0.010	-0.020	3.9	540.0	-0.020	-0.05	-0.020	9.1	-0.02
						-50.0	-0.010	1.9	-0.010	-0.030	3.9	460.0	-0.020	-0.05	-0.020	8.2	-0.02
WA56	01	7	-0.010	1000.0	-10.0	-50.0	-0.010	6.7	-0.010	-0.020	1.3	160.0	-0.020	-0.05	.100	11.0	-0.02
				1100.0	-10.0	-50.0	-0.010	1.1	-0.010	-0.020	1.5	200.0	-0.020	-0.05	.020	9.5	.03

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.3 - 1 (cont..)

CR-TRACT
WATER QUALITY PARAMETERS
ALLUVIAL WELLS
FOR SAMPLE DATA SHOWN

WELL	YR	MO	TOTAL ALK (MG/L)		AMMONIA		HA (MG/L)	HC03 (MG/L)	CO3 (MG/L)	BOD (MG/L)	B (MG/L)	BR (MG/L)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
			AL (MG/L)	CA (MG/L)	AS (MG/L)	AS (MG/L)										
WA01	71	7	219.0	-1.00	.040	-.020	-.50	500.0	48.0	-150.0	.10	.800	270.0	91.0	80.0	4.504
	71	10	260.0	-1.00	.050	-.020	-.50	500.0	36.0	-150.0	.30	.800	250.0	84.0	100.0	4.459
WA02	81	7	550.0	-1.00	.040	-.020	-.50	500.0	-1.0	-150.0	.20	.800	170.0	74.0	88.0	3.182
	71	10	440.0	-1.00	-.040	-.020	-.50	440.0	-1.0	-150.0	.10	.800	130.0	79.0	110.0	2.310
WA03	81	7	500.0	-1.00	.040	-.020	-.50	500.0	-1.0	-150.0	.10	.900	140.0	88.0	110.0	2.414
	71	10	490.0	-1.00	-.040	-.020	-.50	490.0	-1.0	-150.0	.10	.900	130.0	82.0	120.0	2.241
WA05	81	7	430.0	-1.00	.040	-.020	-.50	430.0	-1.0	-150.0	-.10	.800	120.0	86.0	91.0	2.166
	71	10	550.0	-1.00	-.040	-.020	-.50	500.0	-1.0	-150.0	.20	.800	160.0	74.0	110.0	2.893
WA06	81	7	510.0	-1.00	.040	-.020	-.50	510.0	-1.0	-150.0	.20	.700	160.0	74.0	75.0	3.140
	71	10	540.0	-1.00	-.040	-.020	-.50	540.0	-1.0	-150.0	.20	.700	160.0	73.0	100.0	2.968
WA07	81	7	590.0	-1.00	.040	-.020	-.50	330.0	-1.0	-150.0	.20	1.000	140.0	55.0	78.0	2.969
	71	10	400.0	-1.00	-.040	-.020	-.50	400.0	-1.0	-150.0	.20	1.000	140.0	56.0	110.0	2.710
WA08	81	7	250.0	-1.00	.040	-.020	-.50	260.0	-1.0	-150.0	.10	.900	120.0	82.0	93.0	2.188
	71	10	460.0	-1.00	.040	-.020	-.50	460.0	-1.0	-150.0	.10	.900	140.0	84.0	99.0	2.502
WA09	81	7	340.0	-1.00	.040	-.020	-.50	360.0	-1.0	-150.0	.20	.900	110.0	75.0	82.0	2.113
	71	10	400.0	-1.00	-.040	-.020	-.50	400.0	-1.0	-150.0	.20	.900	110.0	71.0	110.0	2.010
WA12	81	7	490.0	-1.00	.040	-.020	-.50	490.0	-1.0	-150.0	.10	.800	140.0	110.0	110.0	2.259
	71	10	500.0	-1.00	-.040	-.020	-.50	500.0	-1.0	-150.0	.10	.800	140.0	100.0	110.0	2.326
WA05	81	7	720.0	-1.00	.300	-.020	-.50	650.0	68.0	-150.0	.60	.800	310.0	37.0	41.0	8.455
	71	10	750.0	-1.00	.050	-.020	-.50	730.0	52.0	-150.0	.60	.800	370.0	22.0	40.0	11.666

NOTE: - INDICATES LESS THAN

2.2.2.4 Upper Aquifer Wells

Semi annual water Quality samples were taken for Upper Aquifer Wells in July 1981 for this report period. These data are presented in Tables 2.2.2.4-1, 2.2.2.4-2, and 2.2.2.4-3 which report analyses for Upper Aquifer Wells and recompleted wells in UPC, and UPC₂ aquifer zones.

TABLE 2.2.2.4 - 1

CH-TRACT
WATER QUALITY PARAMETERS
UPPER AQUIFERS
FOR SAMPLE DATA SHOWN

WELL	YR	MO	DO (MG/L)	NI (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	DOC (MG/L)	PHEN (MG/L)	K (MG/L)	CU (MG/L)	TOTAL DISS SOLIDS (MG/L)	SR (MG/L)	SO4 (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)
W334	81	7	.040	.030	-.50	15.0	10.0	.0050	42.0	-.020	1200.0	4.8	300.0	.08	-.020	.05
W444	81	7	-.010	-.020	-.50	-10.0	15.0	.0050	6.1	-.020	900.0	7.3	220.0	-.05	.070	.05

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.4 - 1 (cont)

CB-TRACT WATER QUALITY PARAMETERS UPPER AQUIFERS FOR SAMPLE DATA SHOWN															
WELL	YR MO	T _d KJ/LD (MG/L)	TOTAL		TOTAL HARDNESS		HG (MG/L)	SE (MG/L)	AG (MG/L)	B (MG/L)	ZN (MG/L)	PB (MG/L)	F (MG/L)	CL (MG/L)	CR (MG/L)
			ALPHA PCI/L	BETA PCI/L	CA CO ₃										
WELL 41	7	4.50	1.0	35.0	700.0	-0.00020	-0.010	-0.010	-0.10	-0.020	-0.020	-0.020	1.00	81.0	-0.020
WELL 31	7	.00			240.0	-0.00020	-0.010	-0.010	.30	-0.020	-0.020	-0.020	8.30	9.8	-0.020

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.4 - 1 (cont)

CB-TRACT WATER QUALITY PARAMETERS UPPER AQUIFERS FOR SAMPLE DATA SHOWN																
			TOTAL ALK (MG/L CaCO3)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO3 (MG/L CaCO3)	CO3 (MG/L CaCO3)	BOD (MG/L)	COD (MG/L)	BR (MG/L)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
WELL	YR	NO														
4234	81	7	740.0	-1.00	2.300	-.020	.60	-1.0	790.0	-150.0	-50.0	-.100	200.0	.2	280.0	3.285
4244	81	7	590.0	-.100	.700	-.020	-.50	490.0	98.0	-150.0	160.0	-.100	260.0	36.0	35.0	7.373

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.4 - 2

CH-TRACT
WATER QUALITY PARAMETERS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATA SHOWN

WELL	YR	MO	F	FECAL COLIF. COLONY /100ML	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	TOTAL ALPHA PCI/L	TOTAL BETA PCI/L	RADIUM 226 PCI/L	ZN (MG/L)	PR (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
W002	81	7			.80	-.00020	-.010	-.010	2.0	6.0		-.020	-.020	-.05	-.020	-.02	.80
W011	81	7			1.10	-.00020	-.010	-.010	1.0	20.0		-.020	-.020	.10	-.020	.04	1.80
W012	81	7			.40	-.00020	-.010	-.010	4.0	5.0		-.020	-.020	-.05	.060	-.02	2.50
W014	81	7			7.80	-.00020	-.010	-.010				-.020	-.020	.30	-.020	1.60	3.00
W017	81	7			4.70	-.00020	-.010	-.010				-.020	-.020	.50	-.020	.40	20.00
W018	81	7			.70	-.00020	-.010	-.010				.080	-.020	.07	.200	.50	1.80
W020	81	7			.70	-.00020	-.010	-.010				-.020	-.020	.20	.040	-.02	2.20
W021	81	7			.50	-.00020	-.010	-.010	5.0	2.0		.040	-.020	-.05	.070	-.02	8.70
W041	81	7			.60	-.00020	-.010	-.010				-.020	-.020	.05	.300	.07	.10
W052	81	7			.60	-.00020	-.010	-.010	4.0	3.0		-.020	-.020	.05	.200	.80	-.10
W051	81	7			.50	-.00020	-.010	-.010	-2.0	-1.0		-.020	-.020	.06	.400	.30	.10
W090	81	7			.30	-.00020	.010	-.010				-.020	-.020	.10	.200	.20	.50
W091	81	7			1.70	-.00020	-.010	-.010		51.0		-.020	-.020	.30	-.020	.09	.90

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.4. - 2 (cont.)

CR-TRACT
WATER QUALITY PARAMETERS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATA SHOWN

WELL	YR	MO	NO	NI	NO3	OIL AND GREASE	PHEN	K	H	TOTAL DISS SOLIDS	SR	SO4	CD	CL	COD	CR	CU
			(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
W002	81	7	.010	-.020	-.50	-10.0	.0330	5.7	-.10	910.0	.9	380.0		30.0	-50.0	-.020	-.020
W011	81	7	.020	.020	-.50	-10.0	.0020	23.0	.20	930.0	1.8	230.0		63.0	-50.0	-.020	-.020
W012	81	7	.010	-.020	-.50	-10.0	.0040	3.2	.20	790.0	14.0	220.0		10.0	-50.0	-.020	-.020
W014	81	7	.030	.060	-.50	-10.0	.0770	89.0	.20	1400.0	.5	280.0		390.0	56.0	-.020	.070
W017	81	7	.200	.020	1.10	-10.0	.0890	33.0	4.80	1900.0	-.5	250.0		220.0	-50.0	-.020	.030
W018	81	7	.020	.050	-.50	10.0	-.0010	.6	.10	830.0	11.0	270.0		6.1	229.0	-.020	-.020
W020	81	7	.070	.030	-.50	20.0	.0380	4.5	.20	840.0	.6	260.0		47.0	147.0	-.020	.020
W021	81	7	.010	-.020	-.50	-10.0	-.0010	3.2	.20	530.0	4.0	91.0		4.6	-50.0	-.020	-.020
W041	81	7	.020	.030	-.50	-10.0	.0310	5.0	.10	1300.0	23.0	720.0		12.0	110.0	-.020	-.020
W052	81	7	-.010	-.020	-.50	-10.0	-.0010	3.6	.10	1400.0	18.0	720.0		10.0	-50.0	-.020	-.020
W061	81	7	-.010	.020	-.50	-10.0	.0020	3.2	.20	1200.0	20.0	610.0		16.0	-50.0	-.020	-.020
W090	81	7	.030	.070	.70	-10.0	.0110	8.0	.20	2300.0	5.7	1300.0		13.0	-50.0	-.020	-.020
W091	81	7	.040	-.020	1.10	-10.0	.0200	54.0	.40	810.0	.5	260.0		65.0	-50.0	-.020	.020

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.4. - 2 (cont.)

CR-TRACT
WATER QUALITY PARAMETERS
UPPER PARACHUTE - CREEK 1
FOR SAMPLE DATA SHOWN

WELL	YR	MO	TOTAL ALK (MG/L) (CACO ₃)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO ₃ (MG/L) (CACO ₃)	CO ₃ (MG/L) (CACO ₃)	ROD (MG/L)	BR (MG/L)	HARDNESS (MG/L) (CACO ₃)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
W002	81	7	360.0	-100	.500	-0.020	-0.50	140.0	220.0	-150.0	-0.100	91.0	280.0	18.0	6.7	12.795
W011	81	7	330.0	-100	1.100	-0.020	-0.50	30.0	300.0	-150.0	-0.100	140.0	230.0	27.0	13.0	8.358
W012	81	7	470.0	-100	.300	-0.020	-0.50	400.0	66.0	-150.0	-0.100	280.0	190.0	51.0	29.0	4.923
W014	81	7	330.0	-100	6.400	-0.020	-0.50	-1.0	250.0	-150.0	-0.100	14.0	440.0	1.4	3.4	50.700
W017	81	7	1600.0	.500	4.600	.040	-0.50	-1.0	1500.0	-150.0	-0.100	-10.0	980.0	-0.5	1.9	163.407
W018	81	7	440.0	-100	.400	-0.020	-0.50	440.0	-1.0	-150.0	.900	370.0	160.0	63.0	45.0	3.613
W020	81	7	410.0	-100	.600	-0.020	-0.50	240.0	170.0	-150.0	.400	210.0	250.0	46.0	7.5	7.550
W021	81	7	400.0	-100	.500	-0.020	-0.50	310.0	94.0	-150.0	-0.100	130.0	180.0	20.0	19.0	6.878
W041	81	7	410.0	-100	.300	-0.020	-0.50	410.0	-1.0	-150.0	.200	620.0	190.0	85.0	110.0	3.309
W052	81	7	530.0	-100	.300	-0.020	-0.50	530.0	-1.0	-150.0	.100	790.0	180.0	120.0	120.0	2.781
W061	81	7	430.0	-100	.400	-0.020	-0.50	430.0	-1.0	-150.0	-0.100	630.0	180.0	97.0	92.0	3.124
W090	81	7	710.0	-100	.300	-0.020	-0.50	710.0	-1.0	-150.0	.900	1200.0	280.0	220.0	120.0	3.512
W091	81	7	350.0	-100	1.500	-0.020	-0.50	-1.0	290.0	-150.0	-0.100	100.0	250.0	21.0	6.8	10.707

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.4 - 3

CH-TRACT
WATER QUALITY PARAMETERS
UPPER PARACHUTE - CREEK 2
FOR SAMPLE DATA SHOWN

WELL	YR	MO	FECAL COLIF. /100ML	TOTAL COLIF. /100ML	N KJLD. (MG/L)	HARDNESS (MG/L CACO ₃)	TOTAL ALPHA PCI/L	TOTAL BETA PCI/L	RADIUM 226 PCI/L	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	F (MG/L)	NI (MG/L)	CR (MG/L)
WE04	81	7			1.10	320.0	1.0	6.0		-.00020	-.010	-.010	-.020	.20	-.020	-.020
WE17	81	7			10.00	2500.0				.00030	-.010	-.010	.200	1.20	.080	-.020
WE18	81	7			1.40	410.0				-.00020	-.010	-.010	.040	2.00	.040	-.020
WE20	81	7			5.00	28.0				-.00020	-.010	-.010	-.020	28.00	.040	-.020
WE21	81	7			1.40	32.0	-2.0	8.0		-.00020	-.010	-.010	.020	17.00	-.020	-.020
WE51	81	7			5.00	-10.0				-.00020	-.010	-.010	-.020	11.00	-.020	-.020
WE52	81	7			1.40	32.0	1.0	7.0		-.00020	-.010	-.010	-.020	20.00	-.020	-.020
WE61	81	7			.80	620.0	2.0	3.0		-.00020	-.010	-.010	-.020	.10	-.020	-.020

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.4 - 3 (cont.)

CB-TRACT WATER QUALITY PARAMETERS UPPER PARACHUTE - CREEK 2 FOR SAMPLE DATA SHOWN																
WELL	YR	MO	DO (MG/L)	TOTAL SOLIDS (MG/L)	OIL AND GREASE (MG/L)	COD (MG/L)	PHEN (MG/L)	K (MG/L)	CU (MG/L)	SR (MG/L)	SO4 (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	CL (MG/L)	FE (MG/L)
WE04	81	7	-0.010	720.0	-10.0	-50.0	.0010	3.9	-.020	4.4	160.0	-.020	-.05	.200	14.0	.04
WE17	81	7	.200	4500.0	-10.0	180.0	.0270	330.0	.200	26.0	-5.0	1.000	1.20	.020	2100.0	.60
WE18	81	7	.030	910.0	5.0	344.0	-.0010	3.2	.020	11.0	310.0	-.020	.07	.200	16.0	.20
WE20	81	7	.020	1300.0	22.0	141.0	.0020	14.0	.030	.6	10.0	-.020	.20	.030	110.0	.06
WE21	81	7	.100	1200.0	-10.0	-50.0	.0100	11.0	-.020	1.2	20.0	-.020	.05	-.020	58.0	.10
WE31	81	7	.200	740.0	-10.0	-50.0	.0420	36.0	-.020	-.5	130.0	-.020	.10	-.020	170.0	.40
WE32	81	7	-.010	690.0	-10.0	-50.0	-.0010	4.6	-.020	1.9	180.0	-.020	-.05	-.020	4.5	.03
WE51	81	7	-.010	1200.0	-10.0	-50.0	.0100	3.9	-.020	22.0	600.0	-.020	.07	.200	10.0	1.10

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.4 -3 (cont.)

PAGE 1

CH-TRACT
WATER QUALITY PARAMETERS
UPPER PARACHUTE CREEK 2
FOR SAMPLE DATA SHOWN

WELL	YR	MO	TOTAL ALK (MG/L CaCO ₃)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HC03 (MG/L)	CO3 (MG/L)	R0D (MG/L)	H (MG/L)	BR (MG/L)	NA (MG/L)	MG(MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
WE04	01	7	350.0	-0.100	.040	-0.020	-0.50	300.0	-1.0	-150.0	-0.10	.800	140.0	45.0	54.0	3.406
WE17	01	7	1000.0	-0.100	9.900	-0.020	2.60	-1.0	1600.0	-150.0	.20	-0.100	800.0	-0.5	990.0	6.989
WE18	01	7	600.0	-0.100	.400	-0.020	-0.50	460.0	-1.0	-150.0	.20	.600	170.0	68.0	51.0	3.667
WE20	01	7	1000.0	-0.100	1.800	-0.020	-0.50	1200.0	410.0	-150.0	1.60	-0.100	820.0	3.7	5.2	67.180
WE21	01	7	1000.0	.100	1.400	.040	-0.50	540.0	500.0	-150.0	.50	-0.100	510.0	3.8	6.4	39.462
WE51	01	7	190.0	-0.100	4.200	-0.020	-0.50	30.0	160.0	-150.0	.40	-0.100	220.0	-0.5	1.9	36.683
WE52	01	7	510.0	-0.100	1.000	-0.020	-0.50	540.0	66.0	-150.0	.60	-0.100	280.0	4.1	5.9	21.672
WE61	01	7	410.0	-0.100	.300	-0.020	-0.50	410.0	-1.0	-150.0	.20	-0.100	180.0	94.0	92.0	3.155

NOTE: - INDICATES LESS THAN

LOWER
AQUIFER WELLS

2.2.2.5 Lower Aquifer Wells

Semi annual water quality samples were taken for Lower Aquifer Wells in July 1981 of this report period. These data are presented in Tables 2.2.2.5-1 and 2.2.2.5-2 which report analyses for Lower Aquifer Wells and recompleted wells in LPC₃ and LPC₄ aquifer zones.

TABLE 2.2.2.5 - 1

CB-TRACT
WATER QUALITY PARAMETERS
LOWER AQUIFERS
FOR SAMPLE DATA SHOWN

WELL	YR	DT	NO ₃ (MG/L)	HI (MG/L)	NO ₃ (MG/L)	OIL AND GREASE (MG/L)	DOC (MG/L)	PHEN (MG/L)	K (MG/L)	CU (MG/L)	SR (MG/L)	SO ₄ (MG/L)	LI (MG/L)	MN (MG/L)	TOTAL DISS. SOLIDS (MG/L)	FE (MG/L)
WY27	81	7	-.50	-.020	-.50	-10.0	7.0	.0050	12.0	-.020	2.0	30.0	-.05	.020	790.0	.03
WY46	81	7	-.50	-.020	-.50	-10.0	3.0	.0120	8.0	-.020	2.6	34.0	-.05	.030	770.0	-.02
WY81	81	7	-.50	-.020	-.50	-10.0	4.0	.0070	5.4	-.020	2.1	-5.0	.07	-.020	1100.0	.20

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.5 - 1 (cont.)

CB-TRACT WATER QUALITY PARAMETERS LOWER AQUIFERS FOR SAMPLE DATA SHOWN																
WELL	YR	Q1	KJELD. (MG/L)	TOTAL ALPHA PCL/L	TOTAL BETA PCL/L	RADIUM 226 PCL/L	HARDNESS (MG/L CaCO3)	HG (MG/L)	SE (MG/L)	AG (MG/L)	B (MG/L)	ZN (MG/L)	PB (MG/L)	F (MG/L)	CL (MG/L)	CR (MG/L)
WY45	81	7	1.70				27.0	-.00020	-.010	-.010	.70	-.020	-.020	21.00	6.3	-.020
WY46	81	7	1.40				29.0	-.00020	-.010	-.010	.60	-.020	-.020	20.00	4.2	-.020
WY41	81	7	1.20	7.0	6.0		22.0	-.00020	-.010	.010	.80	-.020	-.020	24.00	5.3	-.020

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.5 - 1 (cont)

CR-TRACT WATER QUALITY PARAMETERS LOWER AQUIFERS FOR SAMPLE DATA SHOWN																					
WELL	YR	MO	TOTAL ALC (MG/L CaCO3)	AMMONIA AS N (MG/L)		AS (MG/L)	HA (MG/L)	HCO3 (MG/L CaCO3)	CO3 (MG/L CaCO3)	BOD (MG/L)	COD (MG/L)	BR (MG/L)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)					
				AL (MG/L)	AS N (MG/L)																
WY45	01	7	700.0	-1.00	1.300	-0.20	.80	550.0	150.0	-150.0	-50.0	-1.00	310.0	3.1	5.5	26.205					
WY45	01	7	670.0	-1.00	1.400	-0.20	.80	550.0	120.0	-150.0	96.0	-1.00	300.0	3.4	6.2	24.042					
WY41	01	7	1000.0	-1.00	1.200	-0.20	.70	900.0	120.0	-150.0	-50.0	-1.00	470.0	3.0	4.1	43.037					

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.5 - 2

CH-TRACT
WATER QUALITY PARAMETERS
LOWER PARACHUTE CREEK
LPC3 - WG LPC4 - WH
FOR SAMPLE DATA SHOWN

WELL	YR	MO	DO (MG/L)	NI (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	DOC (MG/L)	PHEN (MG/L)	K (MG/L)	CU (MG/L)	TOTAL DISS SOLIDS (MG/L)	SR (MG/L)	SO4 (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)
W612	81	7	.100	.030	-.50	-10.0	14.0	.0050	20.0	-.020	3200.0	1.4	7.0	.60	.070	.10
W617	81	7	.300	.050	-.50	9.0	16.0	.0400	220.0	.040	1600.0	12.0	15.0	1.20	-.020	.08
W618	81	7	.040	.050	-.50	9.0	36.0	.0160	3.4	.030	950.0	9.7	260.0	.09	.200	.20
W620	81	7	.020	.030	-.50	43.0	6.0	.0020	10.0	.020	1900.0	-.5	13.0	.20	.030	.10
W621	81	7	.100	-.020	-.50	-10.0	4.0	.0290	11.0	-.020	860.0	1.2	24.0	.05	-.020	.20
W641	81	7	.060	-.020	-.50	-10.0	14.0	.0190	8.8	-.020	750.0	1.4	-5.0	-.05	-.020	-.02
W651	81	7	.300	.050	-.50	-10.0	51.0	.0220	160.0	.020	1500.0	-.5	73.0	.10	-.020	.10
W652	81	7	.010	-.020	-.50	-10.0	14.0	.0160	6.1	-.020	1200.0	2.5	150.0	.50	.060	-.02
W661	81	7	-.010	-.020	-.50	-10.0	14.0	.0030	5.0	-.020	770.0	2.0	34.0	.06	.070	.06
W691	81	7	.040	.030	-.50	-10.0	38.0	-.0010	8.4	-.020	1600.0	1.4	7.0	.60	.060	.04
W621	81	7	.040	-.020	-.50	-10.0	14.0	.0490	10.0	-.020	500.0	.9	23.0	-.05	-.020	.30

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.5 - 2 (cont.)

CB-TRACT
WATER QUALITY PARAMETERS
LOWER PARACHUTE CREEK
LPC3 - WG LPC4 - WH
FOR SAMPLE DATA SHOWN

WELL	YR	MO	N KJELD. (MG/L)	TOTAL ALPHA PCI/L	TOTAL BETA PCI/L	RADIUM 226 PCI/L	HARDNESS (MG/L CaCO ₃)	Hg (MG/L)	SE (MG/L)	AG (MG/L)	CO (MG/L)	B (MG/L)	ZN (MG/L)	Pb (MG/L)	F (MG/L)	CL (MG/L)	CR (MG/L)
WG12	81	7	3.40	3.0	16.0		34.0	-.00020	-.010	-.010	-.010	5.70	-.020	-.020	32.00	140.0	-.020
WG17	81	7	3.50				620.0	-.00020	-.010	-.010		.40	-.020	-.020	1.80	1300.0	-.020
WG18	81	7	1.40				410.0	-.00020	-.010	-.010		.20	.020	-.020	4.80	52.0	-.020
WG20	81	7	4.30				160.0	-.00020	-.010	-.010		1.60	.030	-.020	28.00	100.0	-.020
WG21	81	7	1.50	3.0	4.0		34.0	-.00020	-.010	-.010		.60	-.020	-.020	16.00	41.0	-.020
WG41	81	7	1.40				24.0	-.00020	-.010	-.010		.80	-.020	-.020	20.00	11.0	-.020
WG51	81	7	2.30				10.0	-.00020	-.010	-.010		1.20	-.020	-.020	21.00	210.0	-.020
WG52	81	7	2.20	1.0			190.0	-.00020	-.010	-.010		2.60	-.020	-.020	17.00	59.0	-.020
WG61	81	7	1.10	3.0	12.0		25.0	-.00020	-.010	-.010		.80	-.020	-.020	.20	5.0	-.020
WG91	81	7	3.40	11.0	5.0		26.0	-.00020	-.010	-.010		3.70	-.020	-.020	24.00	69.0	-.020
WG21	81	7	1.60	2.0	10.0		36.0	-.00020	-.010	-.010		.30	-.020	-.020	14.00	30.0	-.020

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.5 - 2 (cont.)

CR-TRACT
WATER QUALITY PARAMETERS
LOWER PARACHUTE CREEK
LPC3 - WG LPC4 - WH
FOR SAMPLE DATA SHOWN

WELL	YR	MO	TOTAL ALK (MG/L CACO ₃)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HC03 (MG/L CACO ₃)	CO3 (MG/L CACO ₃)	H0D (MG/L)	C0D (MG/L)	BR (MG/L)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
W517	81	7	2800.0	-0.100	2.700	.020	-0.50	2000.0	800.0	-150.0	80.0	-0.100	1600.0	5.1	5.1	119.919
W517	81	7	640.0	-0.100	3.800	-0.020	2.30	-1.0	640.0	-150.0	147.0	-0.100	700.0	-0.5	250.0	12.154
W517	81	7	520.0	-0.100	1.100	-0.020	-0.50	450.0	60.0	-150.0	93.0	-0.100	200.0	67.0	52.0	4.323
W520	81	7	1000.0	-0.100	1.500	-0.020	-0.50	1200.0	380.0	-150.0	149.0	-0.100	830.0	3.2	5.8	68.672
W521	81	7	740.0	-0.100	1.400	.030	-0.50	440.0	300.0	-150.0	-50.0	-0.100	370.0	4.3	6.5	27.641
W541	81	7	560.0	-0.100	1.400	-0.020	-0.50	440.0	220.0	-150.0	64.0	-0.100	310.0	3.4	3.9	27.695
W551	81	7	930.0	-0.200	2.800	.100	-0.50	-1.0	900.0	-150.0	-50.0	-0.100	480.0	-0.5	1.2	92.876
W552	81	7	810.0	-0.100	1.800	-0.020	-0.50	740.0	68.0	-150.0	-50.0	-0.100	390.0	30.0	26.0	12.368
W551	81	7	690.0	-0.100	1.100	-0.020	-0.50	590.0	100.0	-150.0	-50.0	-0.100	310.0	3.1	4.8	27.117
W591	81	7	1300.0	-0.100	3.200	-0.020	-0.50	1200.0	92.0	-150.0	-50.0	-0.100	680.0	3.0	5.8	57.115
W521	81	7	410.0	-0.100	1.600	-0.020	-0.50	230.0	180.0	-150.0	-50.0	-0.100	200.0	5.0	6.1	14.545

NOTE: - INDICATES LESS THAN

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IMPOUNDMENTS/
LAND APPLICATION/
REINJECTION/DISCHARGE

2.2.2.6 Impoundments/Discharge/NPDES/Reinjection

This section presents water quality data results for NPDES samples. Water quality samples for weekly, monthly and semi-annual analysis and field measurements for A/B discharge (WN40) are shown in Tables 2.2.2.6-1 through 2.2.2.6-4 respectively. This monitoring station is located on Figure 4.3-1 (Development Monitoring Activities, jacket map) in section 4.3 Station Coordinates.

Water quality data results for two injection wells and two pond seepage wells are presented in Table 2.2.2.6-5 for this report period.

TABLE 2.2.2.6 - 1

CH-TRACT
NPDES WATER QUALITY SAMPLES
WEEKLY ANALYSIS

LOC	YR	MO	DAY	FLOW	TOT. SUSS. SOLIDS,	TDS	FLOURIDE	BORON	AMMONIA	PHENOL	ALUMINUM	IRON	OIL AND GREASE	PH
W141	81	6	10		29.0	1300.0	19.00	.30	.60	-.001	-.1	.30	-1	8.70
			10		9.0	1300.0	19.00	.30	.60	.008	-.1	.20	8	9.00
			24		2.0	1300.0	19.00	.30	.80	.007	-.1	.07	2	8.91
			7		6.0	1300.0	18.00	.30	.60	.001	-.1	.20	-10	8.74
			10		9.0	1300.0	19.00	.30	1.10	-.001	-.1	.20	-10	8.72
			22		15.0	1300.0	19.00	.90	.70	.001	-.1	.10	-10	8.92
			24		3.0	1300.0	20.00	.70	.60	.002	-.1	.20	-10	8.36
			5		9.0	1300.0	20.00	.30	1.00	.005	-.1	.05	-10	8.66
			5		20.0	1300.0	19.00	.30	.80	.001	-.1	.07	-10	8.76
			11		33.0	1400.0	19.00	.70	.50	.001	-.1	.10	-10	8.33
			14		9.0	1400.0	20.00	.50	1.20	.004	-.1	.04	-10	9.37
			26		7.0	1300.0	20.00	.20	1.20	.004	-.1	.04	-10	7.55
			29		6.0	1300.0	20.00	.70	.50	.004	-.1	.05	-10	8.02
			9		1.0	1300.0	20.00	.60	.70	.003	-.1	.09	-10	7.92
			16		17.0	1400.0	21.00	.30	1.20	.011	-.1	.11	-10	8.42
W142	81	6	10						-.04					7.92
			10						.05					7.93
			14						.04					8.21
			24						-.04					8.32
			7						.04					7.77
			10						.20					8.30
			15						.04					8.24
			22						.05					8.16
			29						.05					8.18
			5						-.04					7.95
			12						-.04					8.14
			19						.04					8.07
			26						.05					8.14
			9						.04					8.19
			16						1.10					8.23
W142	81	7	3						-.04					8.11
			10						.04					8.37
			14						.04					8.35
			24						-.04					8.48
			7						.07					8.40
			10						.04					8.40
			15						-.04					8.46
			22						.05					8.40
			29						.05					8.57

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 - 1 (cont.)

CH-TRACT
NPDES WATER QUALITY SAMPLES
WEEKLY ANALYSIS

LOC	YR	MO	DAY	FLOW	LAB TOT. SUSS. SOLIDS,	TDS	FLOURIDE	BORON	AMMONIA	PHENOL	ALUMINUM	IRON	OIL AND GREASE	PH
W042	81	4	5						-.04					8.06
			12						.04					8.20
			19						-.04					8.21
		9	26						.05					8.20
			29						.05					8.27
W002	81	7	16				1.80		.04					
			22				1.30		.05					8.78
			29						.04					8.81
W042	81	8	3						.30					9.06
			10						.10					8.99
			18						.05					8.83
		7	24						.20					8.85
			1						.04					9.00
			8						.09					8.68
			15						.07					8.92
			22						.04					8.85
			29						.05					8.78
		4	5						.04					8.88
			12						.04					8.94
			19						.10					
			26						.05					
		9	29						.04					8.99
			16						.10					

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 - 2

CB-TRACT
NPDES WATER QUALITY SAMPLES
MONTHLY ANALYSIS

LOC	YR	MO	CADMIUM	COPPER	MERCURY	SILVER	ZINC
-----	---	---	-----	-----	-----	-----	-----
WN40	81	6					
		7	-.01	-.02	-.00020	-.01	-.02
		8	-.01	-.02	-.00020	-.01	-.02
		9	-.01	-.02	.00020	-.01	-.02
WN41	81	6					
		7					
		8					
		9					
WN42	81	6					
		7					
		8					

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 -2 (cont.)

		CH-TRACT NPDES WATER QUALITY SAMPLES MONTHLY ANALYSIS				
LOC	YR	MO	CADMIUM	COPPER	MERCURY	SILVER
---	---	---	-----	-----	-----	-----

WN42	81	8				
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9

WU02	81	7				
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WU42	81	6				
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NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 - 3

WIDES SEMI-ANNUAL
WATER QUALITY
MEASUREMENT PCI/L UNLESS OTHERWISE NOTED

LUC	YR	MO	DAY	TOTAL ALPHA	TOTAL BETA	TOTAL RADIUM 226	TOTAL URANIUM	TEMP DEGS	NITRATE/NITRITE (MG/L)
W-140	81	6	3	5.0	.0	.000	.0000	21.00	.800

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 - 3 (cont.)

NPDES SEMI-ANNUAL
WATER QUALITY
MEASUREMENT IS MG/L

LOC	YR	MO	DAY	TOTAL DISSOLVED SOLIDS	FLORIDE	BORON	AMMONIA AS N	PHENOL	OIL AND GREASE	TOTAL MERCURY	TOTAL ALUMINUM	TOTAL ARSENIC	TOTAL BARIUM
00040	81	6	3	1200.0	19.00	.80	.600	-.001	4.00	-.00020	3.20	-.02	-.50

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 - 3 (cont.)

NPDES SEMI-ANNUAL
WATER QUALITY
MEASUREMENT IS MG/L

LOC	YR	MO	DAY	TOTAL CADMIUM	CHLORIDE	TOTAL CHROMIUM	TOTAL COPPER	TOTAL IRON	TOTAL LEAD	TOTAL LITHIUM	MAGNESIUM	TOTAL MANGANESE	TOTAL MOLYBDENUM
4440	21	6	3	.04	7.5	-.02	-.02	.10	-.02	-.05	5.30	-.02	-.01

NOTE: - INDICATES LESS THAN

PAGE

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TABLE 2.2.2.6 - 3 (cont.)

NPDES SEMI-ANNUAL
WATER QUALITY
MEASUREMENT IS MG/L

LOC	YR	NO	DAY	TOTAL ALKALINITY	BROMIDE	CARBONATE	CHLORIDE	NITRATE	SULFATE	SULFIDE	BICARBONATE	SILICA	SUSPENDED SOLIDS
AND-0	51	5	3	*****	-0.1	360.0	1.5	3.3	37.0	-0.5	700.0	28.0	0.00

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 - 3 (cont.)

NPDES SEMI-ANNUAL WATER QUALITY MEASUREMENT IS MG/L									
LOC	YR	MO	DAY	TOTAL ZIRCONIUM	TOTAL BERYLLIUM	TOTAL BISMUTH	TOTAL GERMANIUM	TOTAL GALLIUM	CYANIDE
WN40	01	06	03	-----	-----	-----	-----	-----	-----
				0.000000	0.010	0.500	1.000	0.100	0.005

NOTE: - INDICATES LESS THAN

PAGE 1

TABLE - 2.2.2.6 - 3 (cont..)

NPDES SEMI-ANNUAL
WATER QUALITY
FRACTIONATION OF DOC

LOC	YR	MO	DAY	CONDUCTIVITY	PH	COD	HYDROPHOBICS: TOTALS	BASES	ACIDS	NEUTRALS	HYDROPHILICS: TOTALS	BASES	ACIDS	NEUTRALS
W40	81	5	3	1790.0	8.7	-1.00	.0	.0	.0	.0	.0	.0	.0	.0

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 -4
FIELD MEASUREMENTS

LUC	YR	MO	DY	TEMP	SPEC. COND.	FIELD TOT. SUSS. SOLIDS	DO
WN40	81	6	10	22.0	1890.0	14.0	6.40
			18	19.0	1870.0	9.4	6.80
	7		24	22.0	1880.0	4.5	6.65
			1	22.0	1830.0	6.3	6.50
			8	22.0	2370.0	2.9	7.60
			15	22.0	1840.0	4.5	7.46
			22	21.0	1930.0	6.8	7.00
	8		29	20.0	1840.0	4.1	7.47
			5	22.0	1900.0	9.6	7.72
			11	22.0	1909.0		6.19
			19	21.0	1850.0		5.88
	9		25	23.0	1940.0	4.3	5.78
			2	20.0	1890.0	2.1	6.58
WN41	81	6	16	20.0	2200.0		7.76
			3	12.0	1310.0	35.4	7.90
			10	22.0	1380.0	11.0	7.10
			18	10.0	1350.0	20.8	8.40
	7		24	13.0	1250.0	35.6	7.75
			1	20.0	1100.0	12.4	7.30
			8	20.0	1400.0	5.6	8.30
			15	12.0	1290.0	32.0	6.93
			22	12.0	1320.0	35.6	7.48
	8		29	14.0	1310.0	14.4	8.26
			5	13.0	1240.0	3.2	11.01
			12	11.0			16.52
			19	12.0	1210.0		16.50
	9		26	12.0	1360.0	19.6	7.47
			2	16.0	1200.0		
WN42	81	6	16	13.0	1300.0		8.74
			3	13.0	1380.0	27.6	8.50
			10	17.0	1480.0	15.2	7.20
			18	10.0	1360.0	56.8	8.50
	7		24	13.0	1240.0	79.6	7.80
			1	19.0	1400.0	44.8	7.20
			8	20.0	1550.0	87.6	8.80
			15	13.0	1300.0	27.6	7.00
			22	14.0	1560.0	45.6	7.59
	8		29	60.0	1503.0	20.0	7.67
			5	13.0	1290.0	8.0	***
			12	12.0			6.28
			19	13.0	1300.0		15.09
			26	13.0	1340.0		6.91
	9		2	16.0	1290.0	24.8	

TABLE 2.2.2.6 - 4 (cont.)

FIELD MEASUREMENTS						
LOC	YR	MO	DY	TEMP	SPEC. COND.	FIELD 101. SUSS. SOLIDS
---	---	---	---	---	---	---
WU42	81	9	16	15.0	1200.0	DO
WU02	81	7	22			8.52
		29				
WU42	81	6	3	17.0	1780.0	17.8
			10	17.0	1830.0	24.4
			18	15.0	1860.0	177.6
		24	1	16.0	1795.0	88.8
	7		8	19.0	1740.0	67.6
			15	20.0	2190.0	60.8
			22	17.0	1730.0	17.6
			29	18.5	1920.0	82.0
	8		5	13.0	1810.0	37.6
			12	11.0	1760.0	7.2
			19	15.0	1840.0	
			26	15.0	1980.0	
	9		29	17.0	1880.0	6.8
			16	19.0	1910.0	
						14.68
						6.86
						8.21

TABLE 2.2.2.6 - 5

CB-TRACT
WATER QUALITY PARAMETERS
POND MONITORING WELLS AND REINJECTION WELLS
FOR SAMPLE DATA SHOWN

LOC.	YR	MO	NI (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHEN (MG/L)	K (MG/L)	B (MG/L)	TOTAL DISS SOLIDS (MG/L)	SR (MG/L)	SO4 (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L)
W117	81	7	.020	-.020	-10.0	.0110	5.4	.60	730.0	1.2	5.0	6.3	-50.0	-.020	-.020
W119	81	7	.020	.040	-.50	.0020	1.6	.60	780.0	.7	-5.0	6.9	24.0	-.020	.030
W113	81	8			-.50		9.2	.10	970.0			11.0			
		9			-.50		3.0	.20	900.0			13.0			
		10			-.50		2.9	.10	920.0			12.0			
					-.50		3.5	-.10	1000.0			9.3			
					-.50		3.6	-.10	800.0			12.0			
W22	81	8			-.50		30.0	.10	1000.0			52.0			
		9			-.50		17.0	.10	1000.0			51.0			
		10			-.50		19.0	.10	940.0			55.0			
					-.50		18.0	.10	990.0			46.0			
					-.50		24.0	.20	1100.0			43.0			

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 - 5 (cont.)

CH-TRACT WATER QUALITY PARAMETERS POND MONITORING WELLS AND REINJECTION WELLS FOR SAMPLE DATA SHOWN																		
LOC.	YR	NO	N KJ/L	HG (MG/L)	SE (MG/L)	AG (MG/L)	TOTAL ALPHA PCI/L		TOTAL BETA PCI/L		TOTAL RADIUM 226 PCI/L		ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
W117	81	7	1.10	-.00020	-.010	-.010	-.010						-.020	-.020	.07	-.020	.07	20.00
W119	81	7	1.40	-.00020	-.010	-.010	-.010						.030	-.020	-.05	-.020	-.02	14.00
W113	81	6	3.00													.200	.02	-.10
		8	2.90													.300	-.02	-.10
		9	1.10													.300	.02	-.10
		10	.60													.200	.02	-.10
																.260	.03	-.10
W222	81	6	42.00													.020	4.20	1.50
		8	30.00													.030	3.60	1.50
		9	22.00													-.020	3.50	1.40
		10	35.00													.030	3.80	1.40
																.070	4.80	1.60

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6 - 5 (cont.)

CR-TRACT
WATER QUALITY PARAMETERS
POND MONITORING WELLS AND REINJECTION WELLS
FOR SAMPLE DATA SHOWN

LOC.	YR	MO	TOTAL ALK (MG/L CaCO ₃)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO ₃ (MG/L CaCO ₃)	CO ₃ (MG/L CaCO ₃)	BOD (MG/L)	BR (MG/L)	HARDNESS (MG/L CaCO ₃)	NA (MG/L)	MG (MG/L)	CA (MG/L)	DOC (MG/L)
W117	81	7	630.0	-0.100	1.100	-0.020	-0.50	410.0	220.0	-150.0	-0.100	22.0	290.0	2.6	4.5	29.0
W119	81	7	840.0	-0.100	1.000	-0.020	-0.50	500.0	140.0	-150.0	-0.100	27.0	320.0	3.1	5.8	4.0
W413	81	8	420.0		1.100	-0.020		340.0	80.0				210.0	82.0	43.0	4.0
			370.0		1.200	-0.020		280.0	86.0				210.0	73.0	23.0	1.0
			390.0		1.000	-0.020		250.0	140.0				210.0	77.0	24.0	12.0
		9	430.0		.600	-0.020		330.0	100.0				210.0	96.0	43.0	3.0
		10	350.0		.600	-0.020		230.0	120.0				200.0	65.0	9.0	2.0
W422	81	8	84.0		27.000	-0.020		-1.0	54.0				170.0	23.0	98.0	50.0
		8	72.0		29.000	-0.020		-1.0	52.0				170.0	24.0	110.0	40.0
		9	76.0		15.000	-0.020		-1.0	44.0				180.0	20.0	92.0	25.0
		10	64.0		24.000	-0.020		-1.0	66.0				170.0	26.0	8.7	44.0
					21.000	-0.020		-1.0	68.0				180.0	39.0	92.0	41.0

NOTE: - INDICATES LESS THAN

2.2.2.7 Shaft and Mine Water

Shaft water was analyzed at one of the three shafts on C-b Tract; (WZ03) Production Shaft, see Table 2.2.2.7-1 for data analyses results.

TABLE 2.2.2.7 - 1

CR-TRACT
WATER QUALITY PARAMETERS
FOR SHAFT DATA

SHAFT	YR	MO	DAY	GROUT	PROBE HOLE	DEPTH FT.	ELEV. FT.	FLOW GPM	TEMP DEGC	PH
41	41	9	1	0	8	90	5034	0	.0	8.04
42	42	0	6	0	6	95	5034	0	.0	7.90

NOTE: - INDICATES LESS THEN

TABLE 2.2.2.7 - 1 (cont.)

CB-TRACT
WATER QUALITY PARAMETERS
FOR SHAFT DATA

SHAFT	YR	MO	DAY	CO (MG/L)	V (MG/L)	SI (MG/L)	TURB NTU	SUSPENDED SOLIDS (MG/L)	DOC (MG/L)	SPEC. COND. U MHOS	DISSOLVED OXYGEN PPM
WZ03	81	9	1	.000 .000	.000 .000	.0 .0	.0 .0	7.0 64.0	2.0 6.0	4490.0 4360.0	3.4 2.6

NOTE: - INDICATES LESS THEN

TABLE 2.2.2.7. - 1 (cont.)

CH-TRACT
WATER QUALITY PARAMETERS
FOR SHAFT DATA

SHAFT	YR	MO	DAY	MO	NO3	OIL AND GREASE	PHEN	K	B	TOTAL DISS SOLIDS	SR	SO4	CD	CL	COD	CR	CU
				(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
W203	81	9	1	-.010	-.000	-.50	.0040	4.0	.70	2800.0	.0	-5.0	.000	18.0	.0	.000	.000
				-.010	.000	-.50	.0050	4.4	.70	2700.0	.0	-5.0	.000	17.0	.0	.000	.000

NOTE: - INDICATES LESS THEN

TABLE 2.2.27 - 1 (cont.)

PAGE 1

CB-TRACT
WATER QUALITY PARAMETERS
FOR SHAFT DATA

SHAFT	YR	MO	DAY	FECAL COLIF. COLONY /100ML	TOTAL COLIF. COLONY /100ML	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WZ03	81	9	1	.0	.0	.0	.00000	.000	.000	.000	.100	.00	-.020	.03	31.00
				.0	.0	.0	.00000	.000	.000	.000	.090	.00	-.020	.02	31.00

NOTE: - INDICATES LESS THEN

1-420

TABLE 2.2.2.7 - 1 (cont.)

PAGE 1

CH-TRACT
WATER QUALITY PARAMETERS
FOR SHAFT DATA

SHAFT	YR	MO	DAY	TOTAL ALK (MG/L CACO ₃)	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO ₃ (MG/L CACO ₃)	CO ₃ (MG/L CACO ₃)	ROD (MG/L)	BR (MG/L)	HARDNESS (MG/L CACO ₃)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
4703	01	9	1	2500.0 2500.0	-0.100 -0.100	1.900 1.800	-0.020 -0.020	0.00 0.00	1900.0 2000.0	720.0 480.0	0.0 0.0	0.000 0.000	0.0 0.0	1500.0 1400.0	2.4 2.4	4.1 4.1	145.518 135.817

NOTE: - INDICATES LESS THEN

2.2.2.8 Shale Dumps

Refer to section 2.2.1.7 for data results of precipitation and field measurements sampled at the lysimeter at the shale pile.

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2.2.2.9 Sediments

report period. Stream bed sediments were not sampled during this

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2.2.3 Supplemental Water Data

This section contains water levels, flow, and time series plots for monitoring stations which are not classified in previous sections.

Water levels for various wells are presented in the following tables:

Table 2.2.3-1	Composite Wells
Table 2.2.3-2	Uintah Formation Zone
Table 2.2.3-3	Seepage Wells
Table 2.2.3-4	Mobil Wells

Reference to time series plots of water levels for various wells are presented in Table 2.2.3-5. Daily flow data for two creeks, Hunter and Willow Creek are presented in Tables 2.2.3-6 and 2.2.3-7, consecutively, for 1981 water year.

Continuous Steven Recorder water levels for various wells are presented in the following tables:

Table 2.2.3-8	Mobil Wells
Table 2.2.3-9	Seepage Wells

Table 2.2.3-1

CB-TRACT
WATER LEVELS IN COMPOSITE WELLS
REQUIRED BY WATER AUGMENTATION PLAN
FOR SAMPLE DATE SHOWN

YR	MO	WELL ID - MEASURING POINT ELEVATION (FT)									
		WV01	WV02	WV03	WV04	WV05	WV06	WV37	WV40	DEPTH	DEPTH
		DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	(FT)	(FT)
		(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)		
81	5	6331	FLWING	FLWING	FLWING	7356		6486		6521	
	6	6330	FLWING	FLWING	FLWING	7356		6509		6522	
	7	6330	FLWING	FLWING	FLWING	7355	FLWING	6506		6411	
	8	6330	FLWING	FLWING	FLWING	7356	FLWING			6507	
	9	6329	FLWING	FLWING	FLWING	7356	FLWING	6447		6540	
	10							6489			

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

Table 2.2.3-2

CB-TRACT
WATER LEVELS
UNITAH FORMATION ZONE
FOR SAMPLE DATE SHOWN

YR	MO	WELL ID	
		WC17 DEPTH (FT)	WC91 DEPTH (FT)
81	5	6662	6519
	6	6660	6519
	7	6664	6520
	8	6658	6519
	9		6518
	10	6672	
	11	6668	6519

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLOWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

Table 2.2.3-3

CB-TRACT
WATER LEVELS FOR SEEPAGE WELLS
FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL	
YR	MO	DY	WW13	WW22
			DEPTH (FT)	DEPTH (FT)
81	5	18	6636.85	6606.82
	6	16	6645.78	6607.54
	7	10	6648.31	
	8	14		6608.03
	8	11	6644.20	
	9	20		6608.10
	9	15	6658.01	6606.44
	10	30		6597.75
	10	27	6663.54	6595.52
	11	16		6709.50

PLUGGD = WELL PLUGGED
 DRY = WELL DRY
 FLWING = WELL FLOWING
 INACCS = WELL INACCESSABLE

TABLE 2.2.3-4

CB-TRACT
MOBIL WELL LEVELS

			WELL ID - FT FROM GROUND LEVEL			
			MW01	MW02	MW03	MW12
YR	MO	DAY	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	5	5	205.7000	333.7998	367.0999	.0000
		27				6304.6094
		28				6304.5898
		29				6305.6680
		30				6305.6680
		31				6305.6680
6		1				6305.6680
		2				6305.6680
		3				6305.6680
		4				6305.6680
		5				6305.6680
		6				6305.6680
		7				6305.6680
		8				6305.6680
		9	206.1000	333.5000	367.2000	6305.6680
		10				6310.3867
		11				6310.3477
		12				6310.3867
		13				6310.3398
		14				6310.2578
		15				6310.1367
		16				6310.1367
		17				6310.2188
		18				6310.1797
		19				6319.7188
		20				6319.7188
		21				6319.7188
		22				6319.7188
		23				6319.7188
		24				6319.7188
		25				6319.7188
		26				6319.7188
		27				6319.7188
		28				6319.7188
		29				6319.7188
		30				6319.7188
7		1				6319.7266
		2				6319.7266
		3				6319.7070
		4				6319.7070
		5				6319.7188
		6				6319.7188
		7				6319.7188
		8				6320.1289
		9				6320.2188
		10				6320.2188
		11				6320.2188

TABLE 2.2.3-4 (cont.)

CB-TRACT
MOBIL WELL LEVELS

			WELL ID - FT FROM GROUND LEVEL			
			MW01	MW02	MW03	MW12
YR	MO	DAY	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
81	7	12				6320.2188
		13				6320.2188
		14				6320.2188
		15				6317.5391
		16				6317.5391
		17				6317.5391
		18				6317.5391
		19				6317.5273

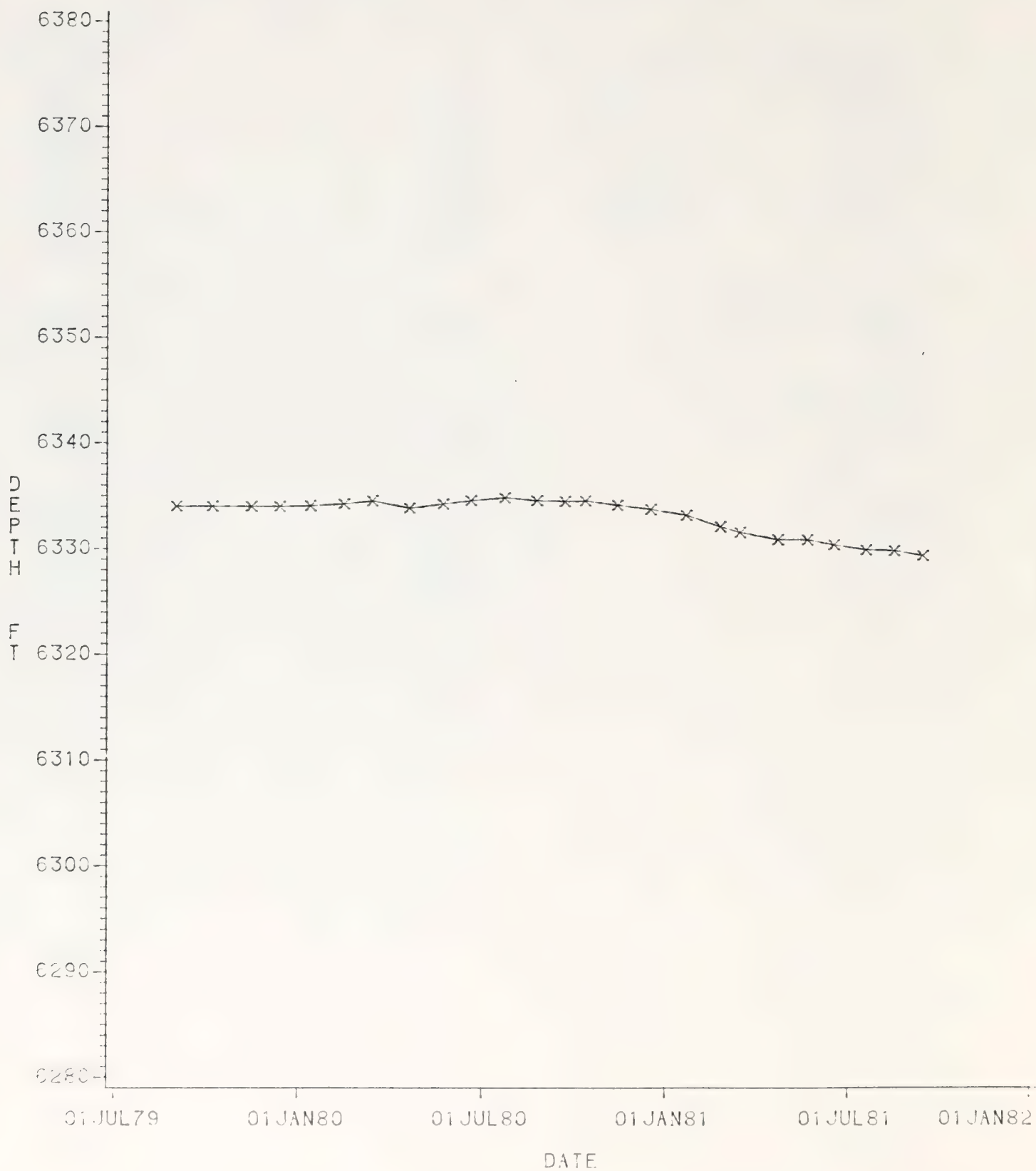
TABLE 2.2.3-5

TIME SERIES PLOTS OF VARIOUS MONITORING WELL LEVELS

<u>Composite Wells</u>		<u>Page No.</u>
GREENO 4-4	WV01	I-498
OLDLAND 3	WV02	I-499
GP 17X-BG	WV03	I-500
BUTE 25	WV04	I-501
UB BELL 12	WV05	I-502
TOSCO WELL	WV06	I-503
AT-1A	WV37	I-504
AT-1B	WV40	I-505
<u>Unitah Zone Wells</u>		
SG-17-4	WC17	I-506
SG-9-4	WC91	I-507
<u>Seepage Wells</u>		
41X-13-2	WW13	I-508
31X-12	WW22	I-509
<u>Mobil Wells</u>		
WELL 1	MW01	I-510
WELL 2	MW02	I-511
WELL 3	MW03	I-512
WELL 12	MW12	I-513
WELL 13	MW13	I-514

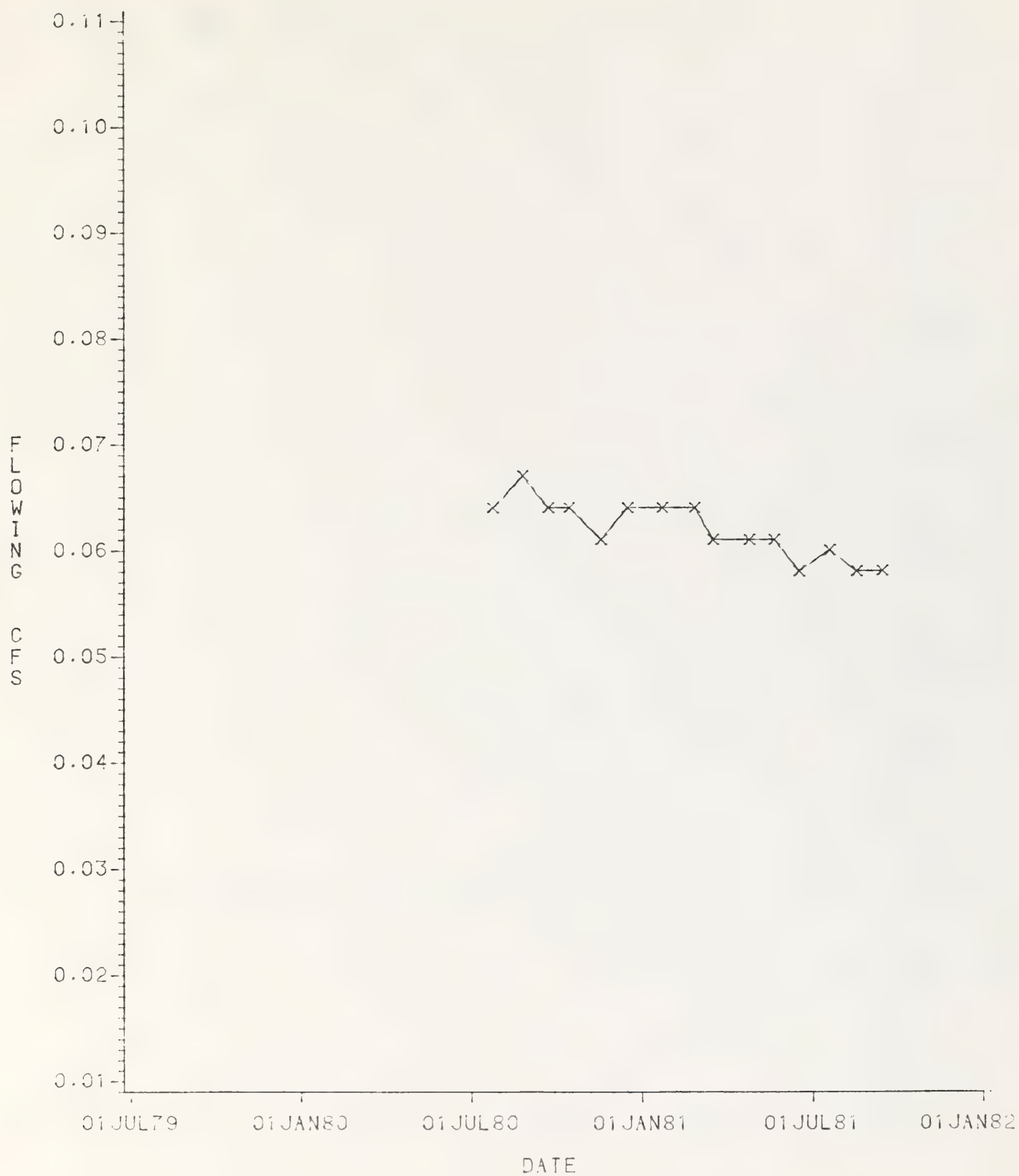
WEST--NORTHWEST OF TRACT

LOC=WV01



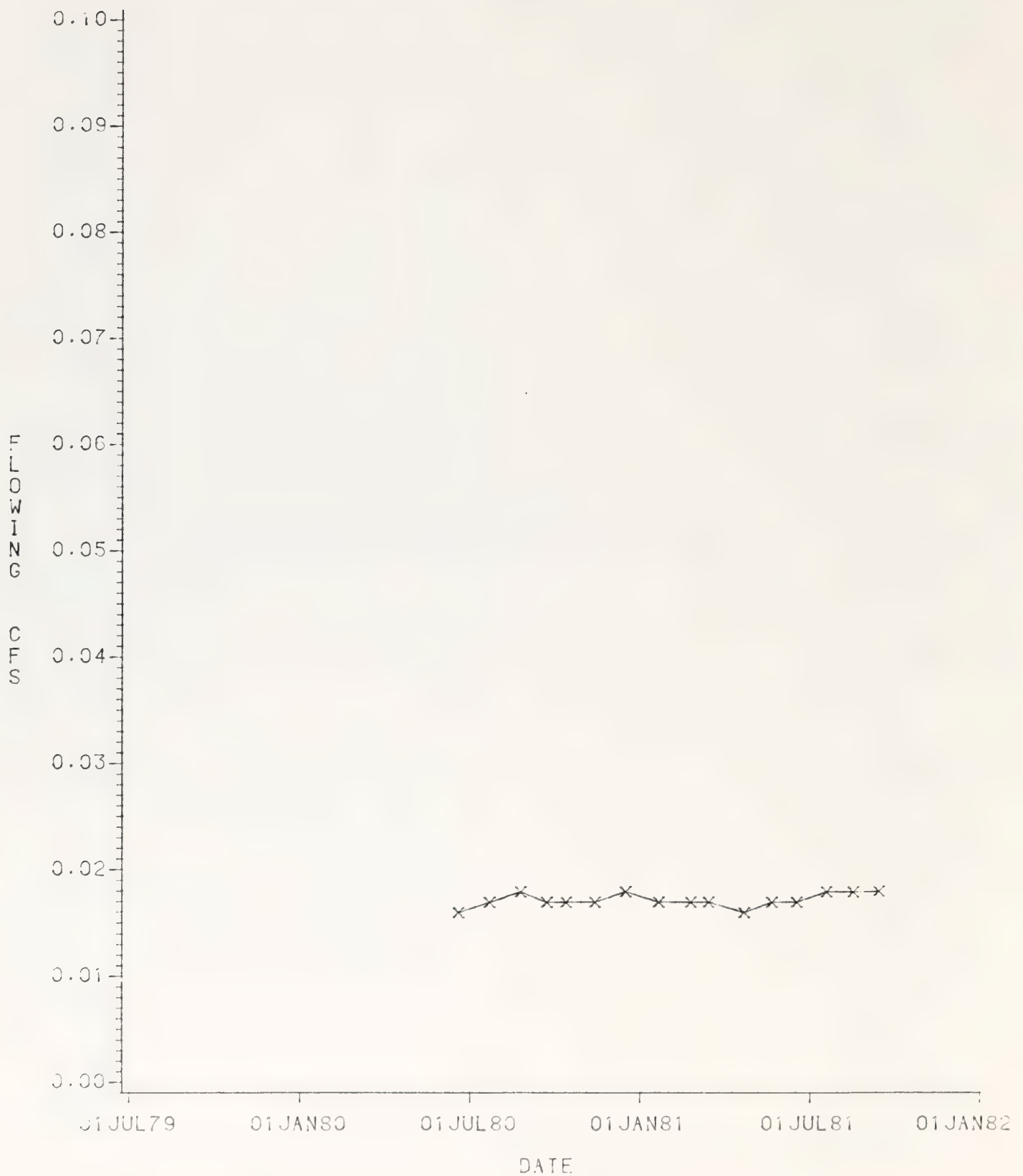
EAST OF TRACT

LOC=WV02



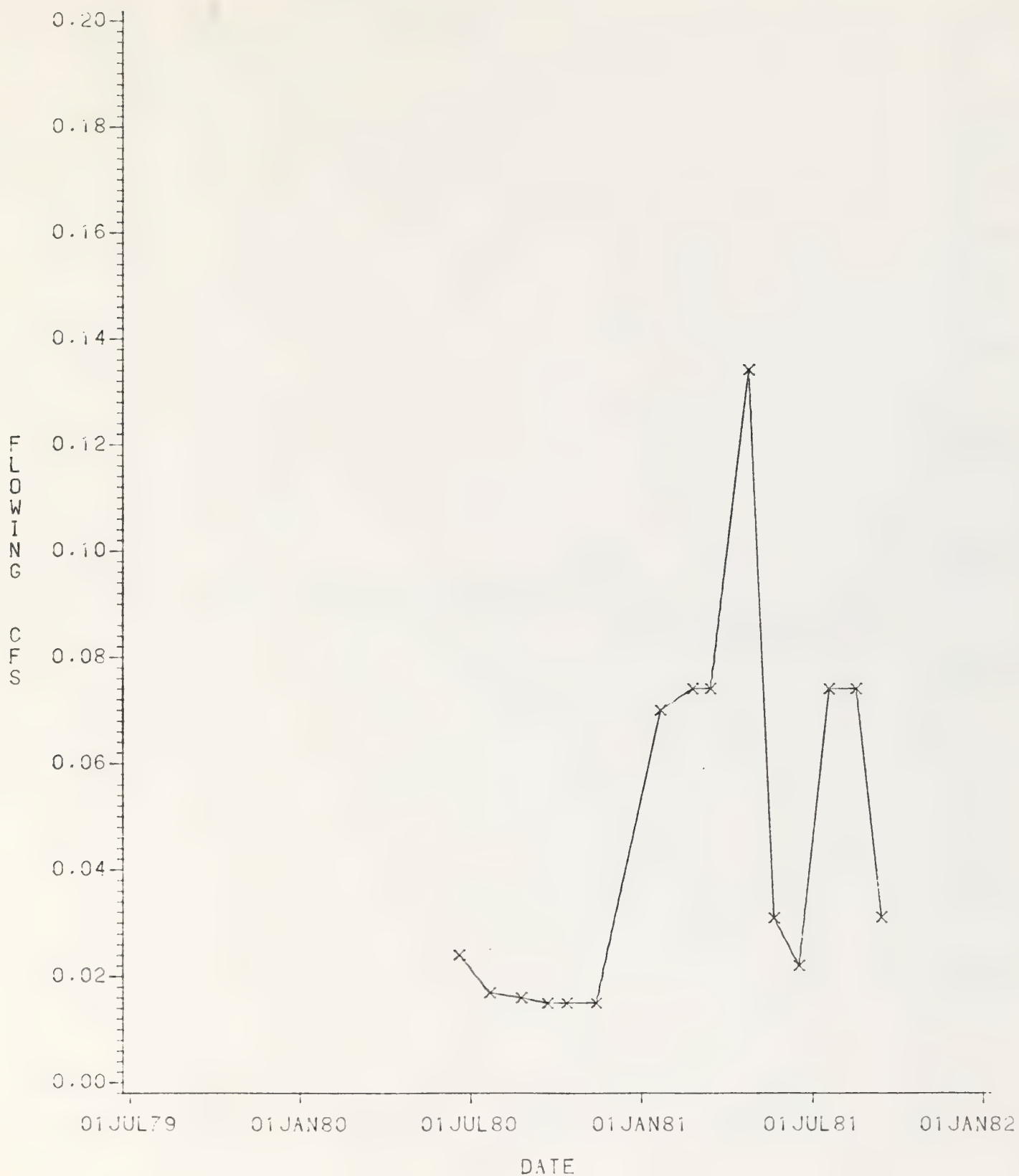
EAST OF TRACT

LOC=WV03



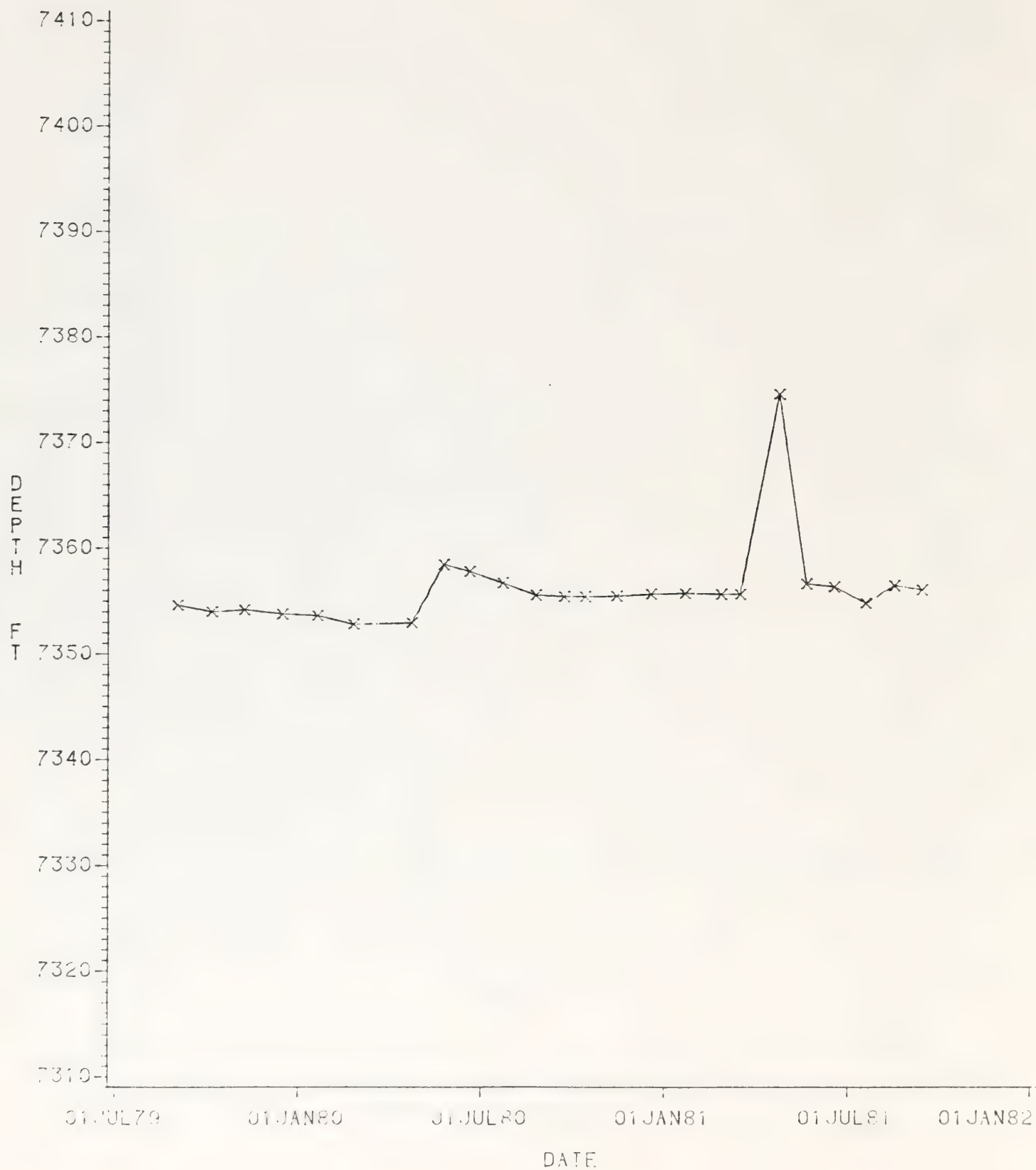
SOUTHEAST-SOUTH OF TRACT

LOC=WV04



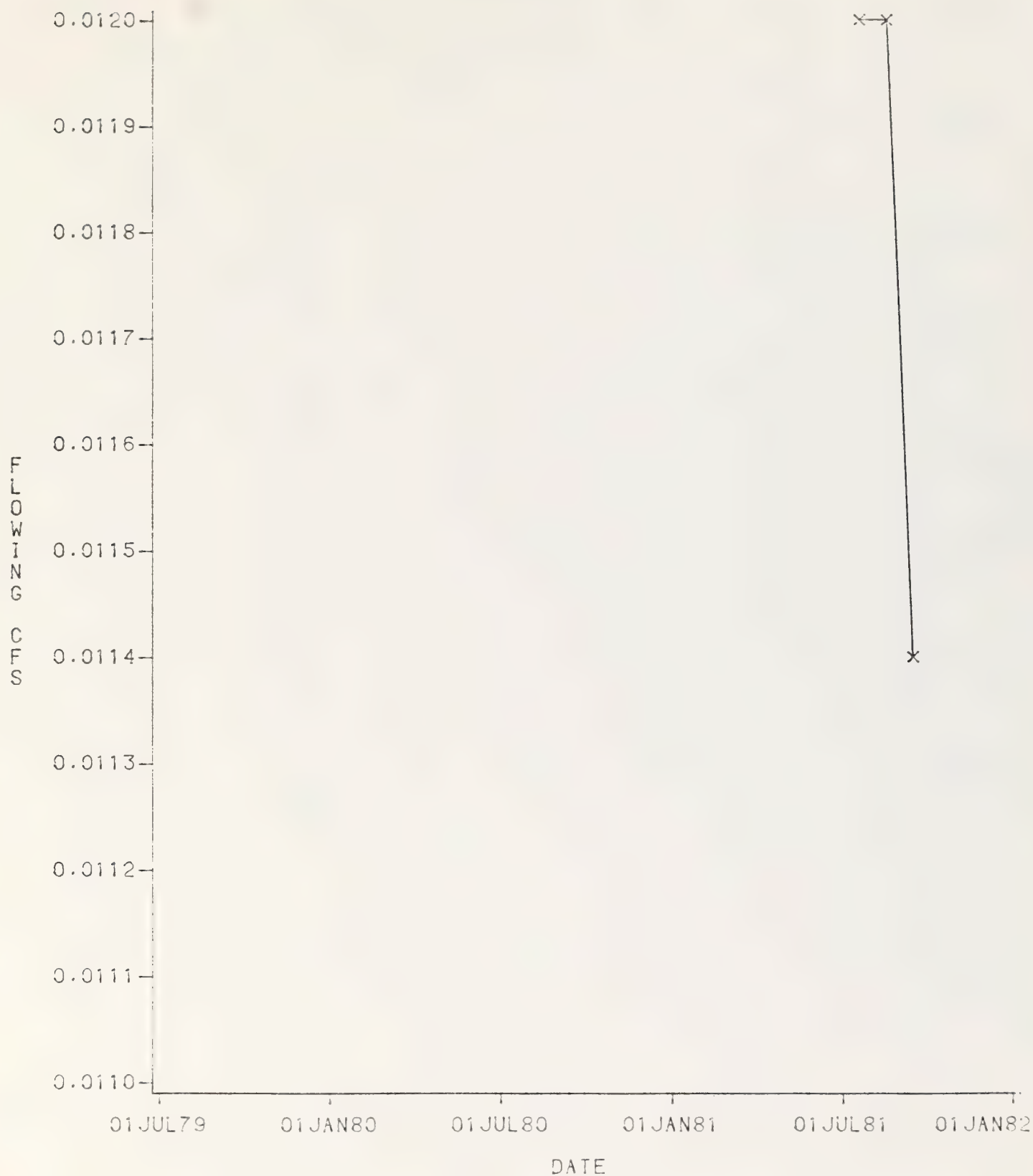
SOUTHEAST--SOUTH OF TRACT

LOC=WV05



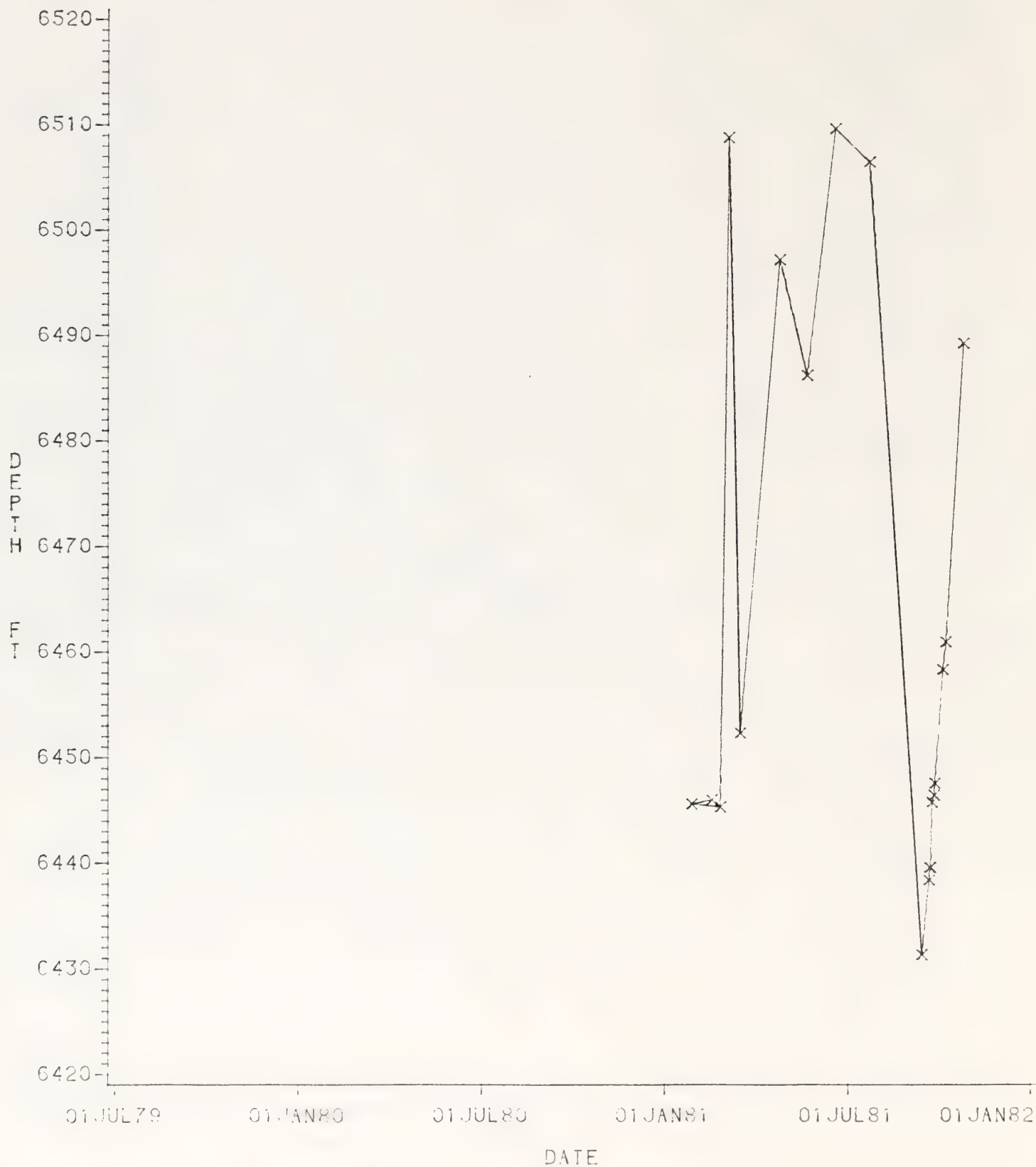
TIME SERIES FOR WELL LEVELS

LOC=WV06



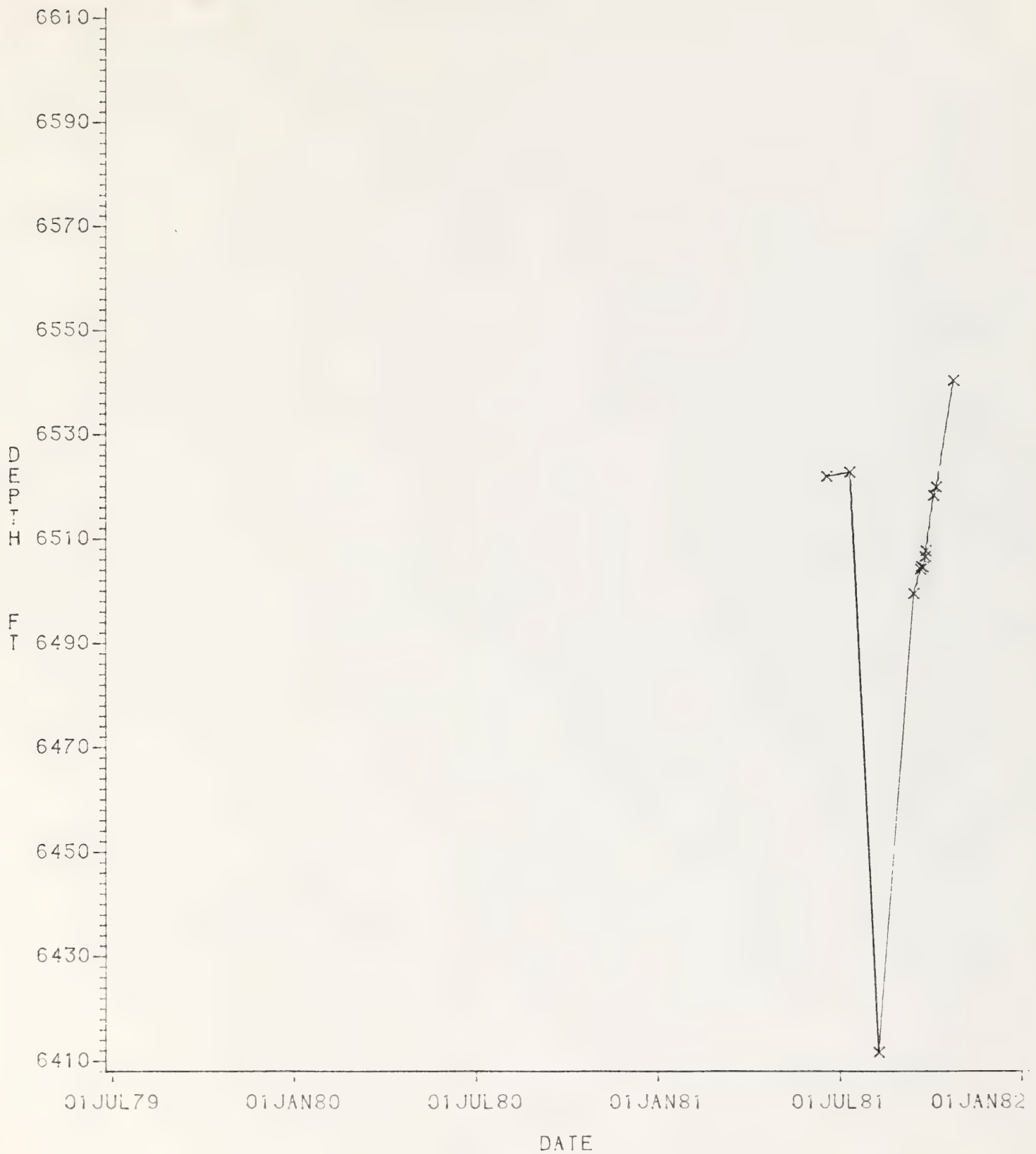
TIME SERIES FOR WELL LEVELS

LOC=WV37



TIME SERIES FOR WELL LEVELS

LOC=WV40



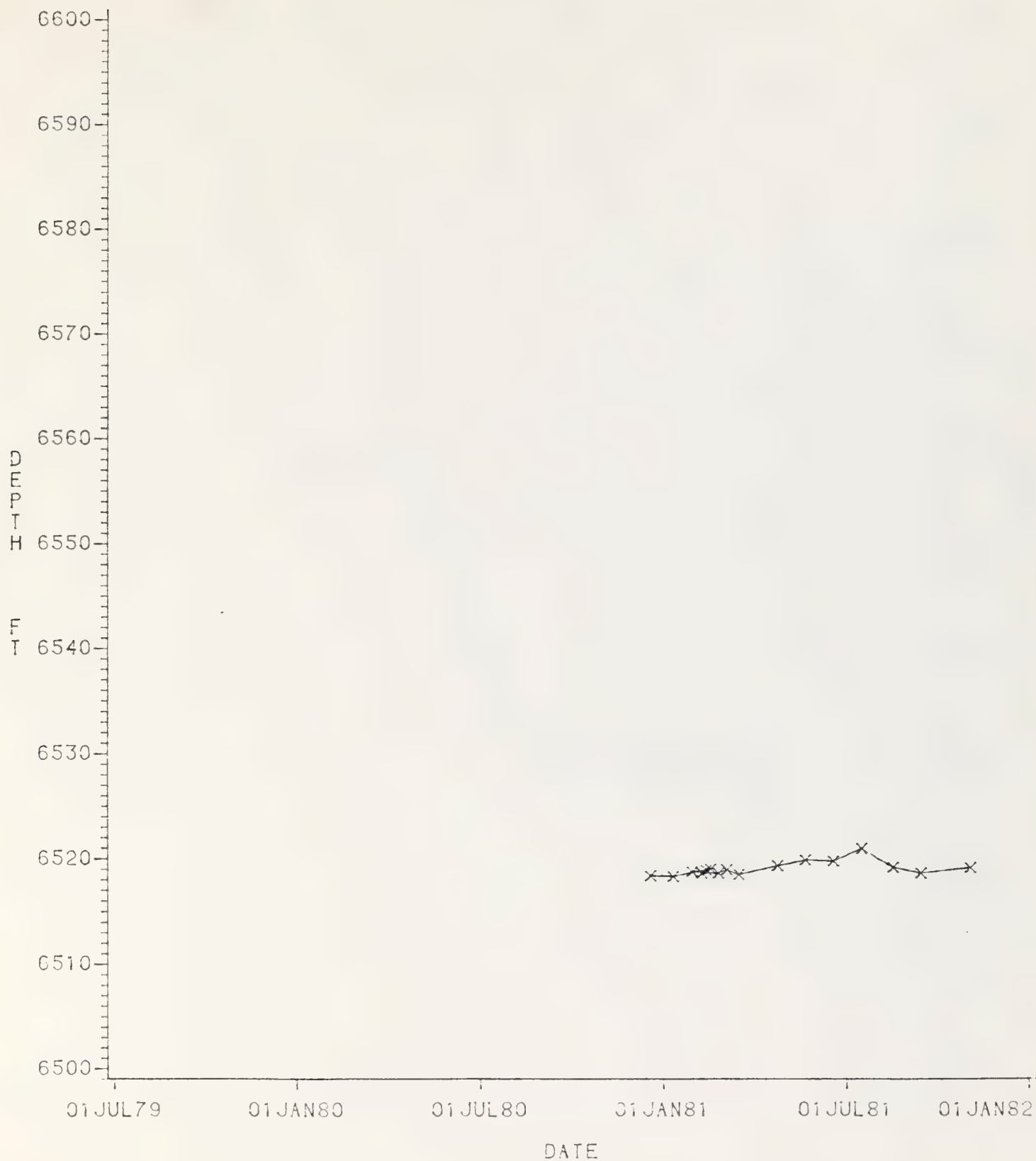
TIME SERIES FOR WELL LEVELS

LOC=WC17



TIME SERIES FOR WELL LEVELS

LOC=WC91



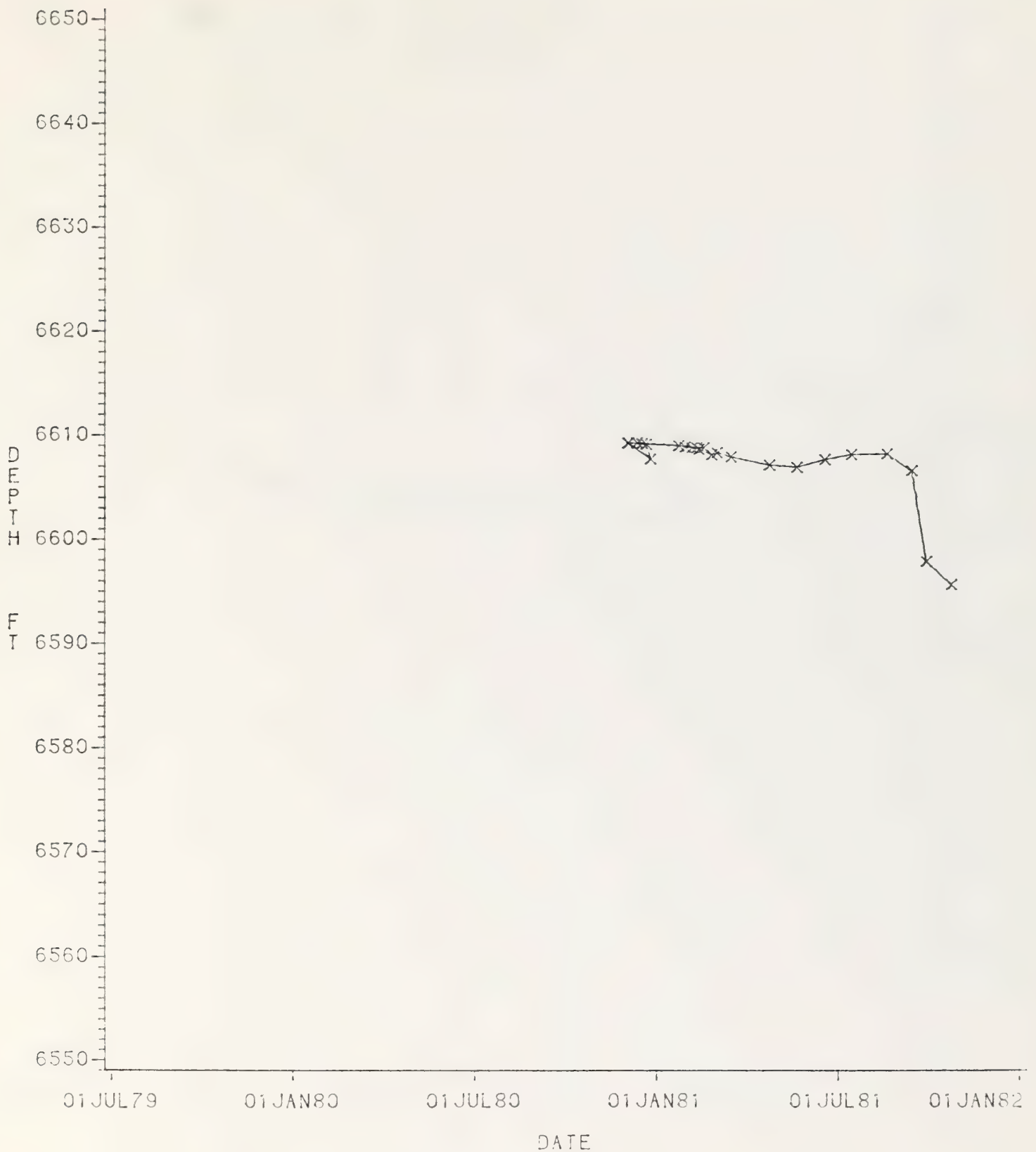
TIME SERIES FOR WELL LEVELS

LOC=WW13



TIME SERIES FOR WELL LEVELS

LOC=WW22



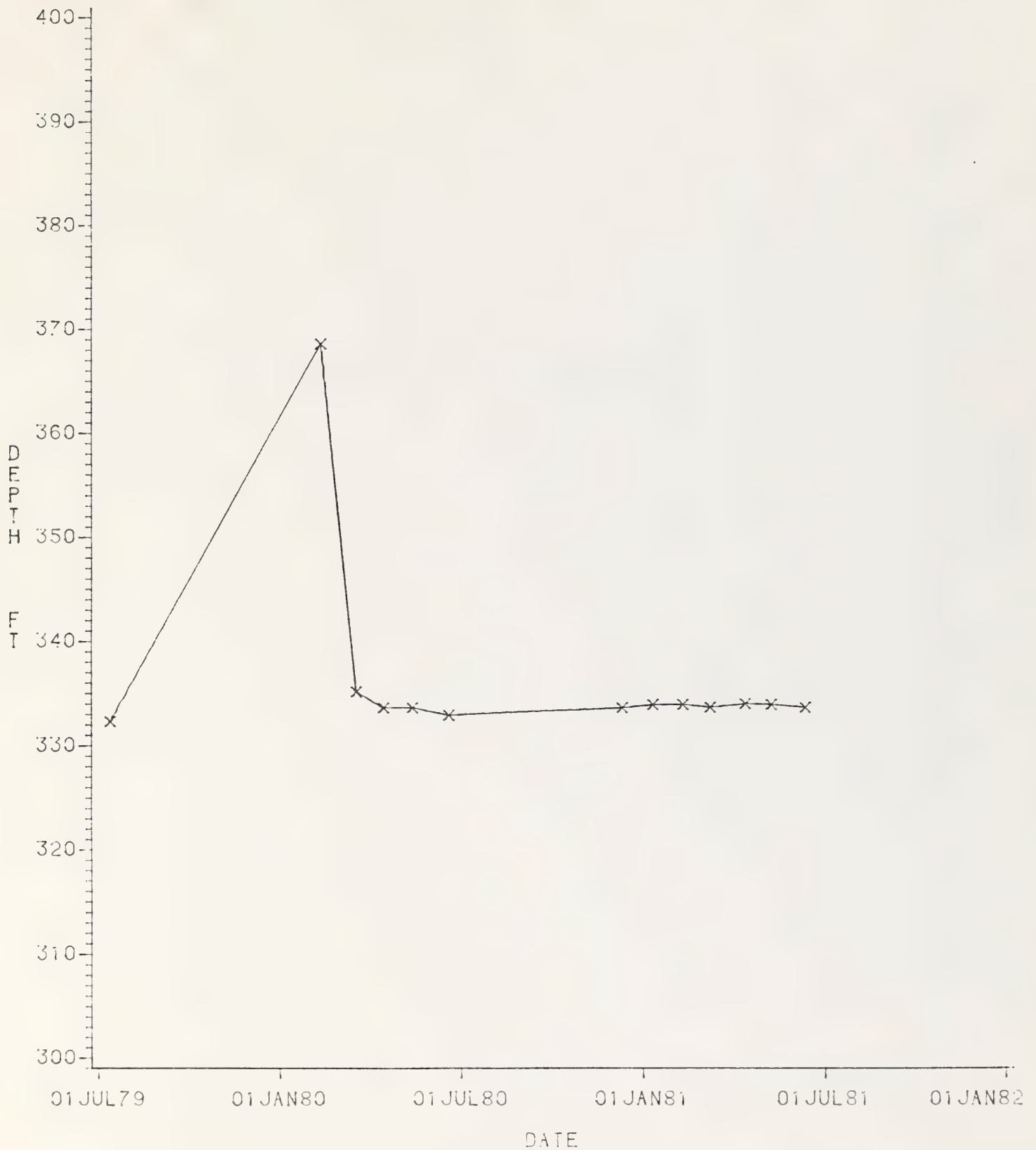
TIME SERIES FOR WELL LEVELS

LOC=MW01



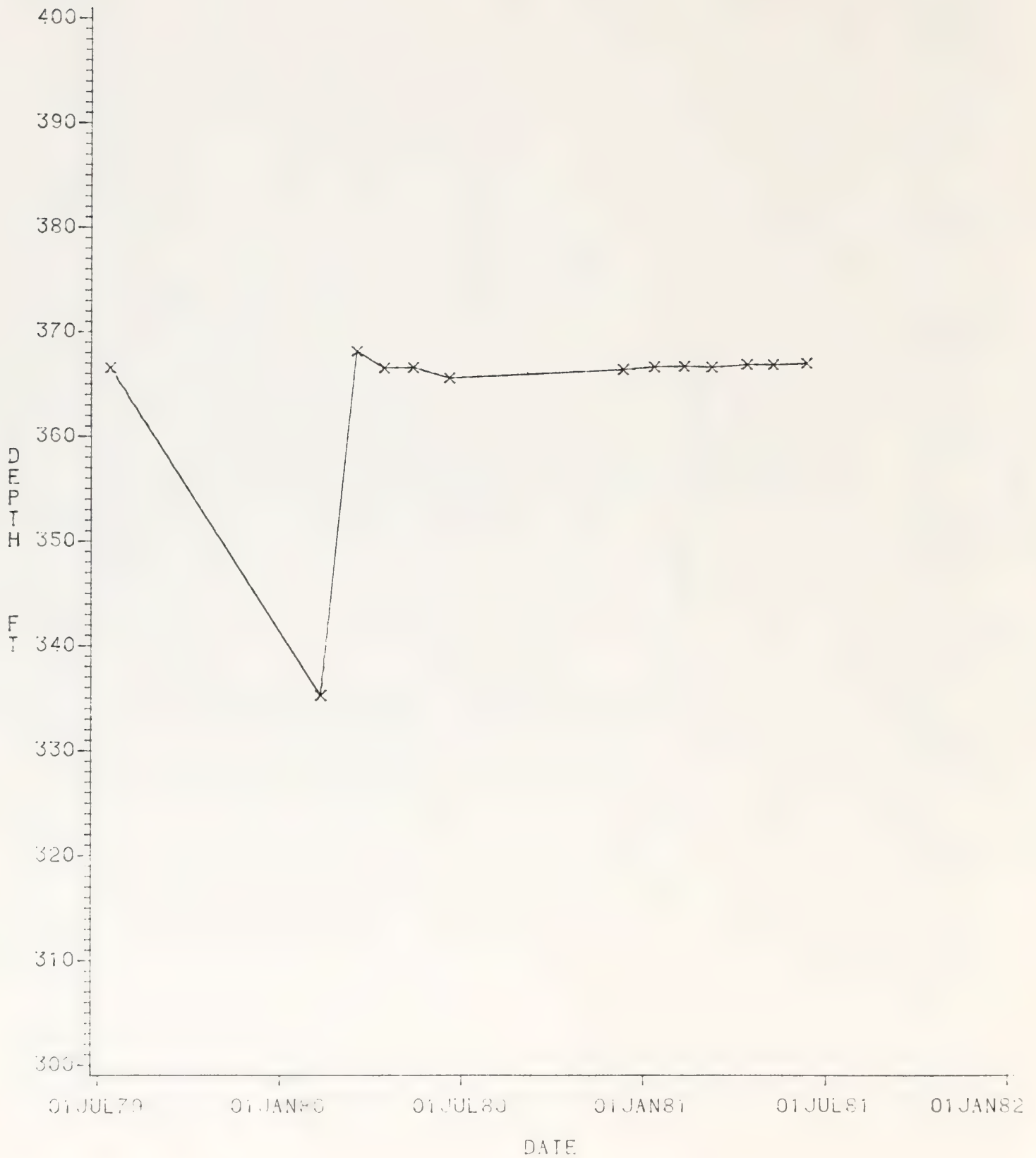
TIME SERIES FOR WELL LEVELS

LOC=MW02



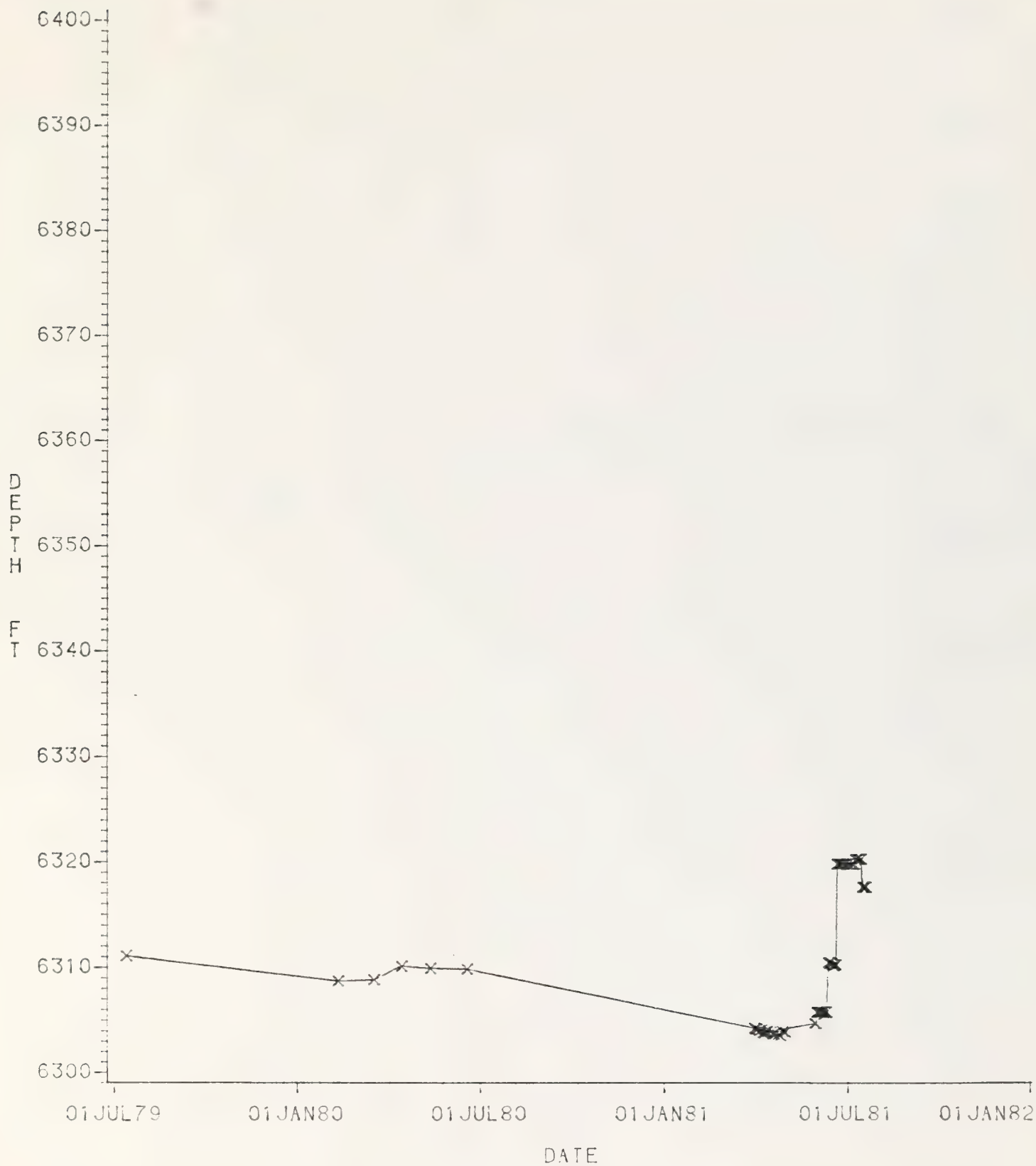
TIME SERIES FOR WELL LEVELS

LOC=MW03



TIME SERIES FOR WELL LEVELS

LOC=MW12



TIME SERIES FOR WELL LEVELS

LOC=MW13

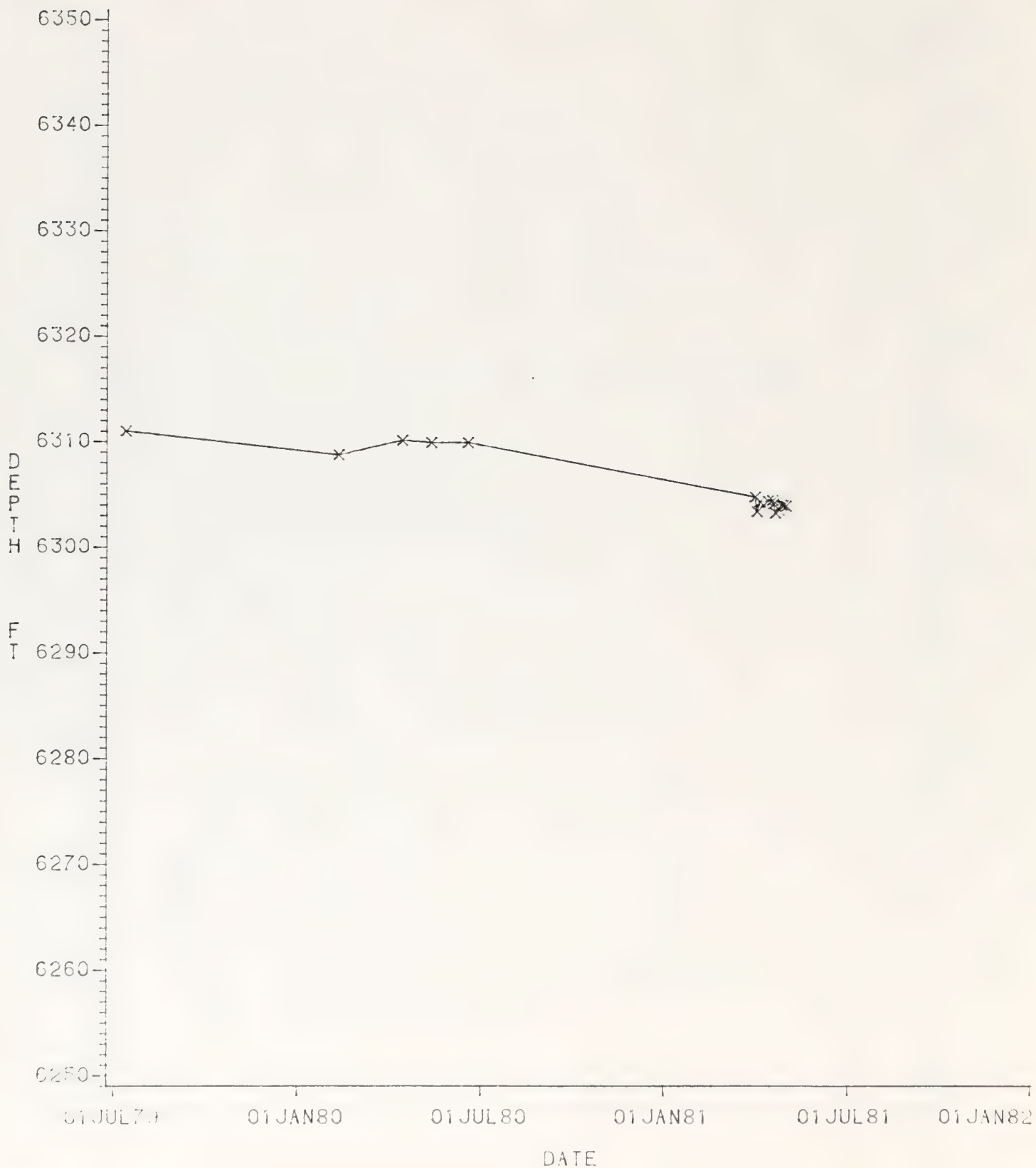


Table 2.2.3-6

Discharge In Cubic Feet Per Second			Hunter Creek - Occidental Station										Water Year October 1980 to September 1981				
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.					
1	2.9	2.6	2.5	2.0	2.1	1.9	2.2	1.6	1.4	1.1	1.2	1.3					
2	2.9	2.6	2.5	1.9	2.0	1.9	2.0	1.6	1.4	1.2	1.2	1.2					
3	2.9	2.6	2.5	1.8	2.0	1.8	2.0	1.7	1.4	1.5	1.2	1.2					
4	2.9	2.6	2.4	1.7	2.0	1.9	2.0	1.9	1.1	1.5	1.2	1.2					
5	2.9	2.6	2.5	1.7	2.0	1.8	2.1	1.6	1.3	1.4	1.1	1.3					
6	2.9	2.6	2.4	1.8	1.9	1.7	2.0	1.6	1.3	1.0	1.2	1.3					
7	2.9	2.6	2.4	1.8	1.9	1.8	1.9	1.6	1.2	.4	1.2	1.3					
8	2.8	2.6	2.3	1.9	1.8	1.8	1.9	1.6	1.3	.8	1.2	1.3					
9	2.9	2.6	2.3	1.9	1.8	1.9	1.9	1.6	1.2	1.0	1.2	1.3					
10	2.9	2.6	2.2	1.9	1.8	2.0	1.9	1.5	1.2	1.3	1.2	1.3					
11	2.9	2.6	2.2	2.0	1.7	2.0	1.9	1.5	1.2	1.5	1.2	1.3					
12	2.9	2.6	2.3	2.0	1.8	2.0	1.7	1.5	1.2	1.5	1.2	1.3					
13	2.9	2.8	2.3	2.0	1.8	2.0	1.7	1.5	1.2	1.4	1.2	1.3					
14	2.9	2.8	2.3	2.0	1.7	1.9	1.6	1.5	1.2	1.3	1.2	1.2					
15	3.0	2.8	2.2	2.0	1.7	1.9	1.7	1.4	1.3	1.3	1.3	1.2					
16	2.9	2.6	2.3	2.0	1.7	1.8	1.7	1.5	1.3	1.3	1.3	1.2					
17	2.9	2.6	2.3	2.0	2.0	2.0	1.7	1.5	1.2	1.4	1.2	1.2					
18	2.8	2.6	2.3	2.0	2.0	2.0	1.6	1.4	1.2	2.0	1.3	1.2					
19	2.8	2.6	2.3	1.9	2.1	1.8	1.6	1.4	1.2	1.5	1.3	1.2					
20	2.8	2.6	2.3	2.0	2.0	1.8	1.6	1.5	1.2	1.2	1.3	1.2					
21	2.8	2.6	2.3	2.0	2.0	1.9	1.6	1.4	1.2	1.2	1.3	1.3					
22	2.8	2.6	2.2	2.0	2.0	1.9	1.6	1.4	1.2	1.2	1.3	1.3					
23	2.6	2.6	2.2	1.9	2.1	1.8	1.6	1.4	1.2	1.2	1.3	1.2					
24	2.6	2.6	2.2	2.0	2.1	1.9	1.6	1.4	1.1	1.2	1.3	1.2					
25	2.6	2.6	2.2	2.0	2.0	1.8	1.6	1.4	1.1	1.2	1.3	1.2					
26	2.6	2.6	2.2	2.0	2.0	1.8	1.6	.6	1.1	1.2	1.3	1.2					
27	2.6	2.6	2.2	2.0	2.0	1.8	1.6	1.0	1.1	1.2	1.3	1.2					
28	2.6	2.5	2.1	2.0	1.9	1.8	1.6	1.1	1.1	1.2	1.3	1.2					
29	2.6	2.5	2.1	2.0	2.0	2.0	1.6	1.2	1.1	1.2	1.3	1.2					
30	2.6	2.5	2.1	2.0	2.0	2.0	1.6	1.2	1.1	1.2	1.3	1.2					
31	2.6	2.5	2.1	2.0	2.0	2.0	1.6	1.2	1.1	1.2	1.3	1.2					
Total	86.7	77.9	70.7	60.2	53.9	58.4	52.7	44.3	36.3	38.8	38.7	37.2					
Ac-ft	172.0	154.5	140.2	119.4	106.9	115.9	104.5	87.9	72.0	77.0	76.8	73.8					

Table 2.2.3-7

Discharge in Cubic Feet Per Second			Willow Creek - Occidental Station										Water Year October 1980 to September 1981		
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.			
1	2.8	4.3	2.4	2.2	2.2	2.8	3.1	2.3	1.4	1.2	1.5	1.3			
2	2.8	4.2	2.4	2.2	2.4	3.3	3.3	2.3	1.3	1.3	1.6	1.2			
3	2.8	4.1	2.4	2.3	2.4	3.1	3.3	2.4	1.4	1.3	1.5	1.2			
4	2.8	3.7	2.4	2.3	2.4	3.3	3.3	2.3	1.4	1.2	1.5	1.2			
5	2.8	4.7	2.4	2.2	2.4	3.3	3.3	2.2	1.4	1.2	1.5	1.2			
6															
7	2.8	5.1	2.3	2.3	2.4	3.3	3.3	2.2	1.4	1.2	1.5	1.2			
8	2.6	3.9	2.4	2.3	2.4	3.3	3.3	* 1.5	1.3	1.2	1.4	1.2			
9	2.6	3.8	2.5	2.3	2.4	3.3	3.3	1.3	1.2	1.1	1.4	1.2			
10	2.6	3.8	2.5	2.3	2.4	3.3	3.3	1.6	1.2	1.2	1.4	1.2			
11	2.6	3.7	2.5	2.3	2.4	3.3	3.1	1.5	1.2	1.1	1.5	1.2			
12	2.6	3.4	2.6	2.3	2.3	3.3	3.1	1.5	1.1	1.2	1.5	1.2			
13	2.4	3.3	2.6	2.3	2.3	3.3	3.1	1.3	1.1	1.3	1.4	1.2			
14	2.5	3.6	2.5	2.3	2.3	3.3	3.0	1.4	1.1	1.3	1.4	1.2			
15	3.3	2.9	2.4	2.3	2.3	3.3	2.8	1.6	1.1	1.3	1.4	1.1			
16		1.8	2.4	2.3	2.5	3.3	2.6	1.6	1.1	1.2	1.4	1.1			
17	3.3	1.9	2.5	2.3	2.8	3.3	3.0	1.6	1.1	1.2	1.4	1.2			
18	3.1	1.7	3.0	2.3	2.8	3.0	3.0	1.6	1.1	1.4	1.4	1.9			
19	3.0	1.7	3.1	2.3	2.8	3.0	2.8	1.6	1.2	1.7	1.3	1.9			
20	2.8	1.6	2.9	2.3	2.9	3.0	3.4	1.6	1.2	1.7	1.3	1.9			
21	2.6	1.6	2.9	2.3	3.1	3.0	3.8	1.6	1.2	1.6	1.3	1.9			
22	2.4	1.6	2.8	2.3	2.6	3.0	3.0	1.7	1.2	1.5	1.3	1.7			
23	2.5	1.6	2.6	2.3	2.8	3.0	2.9	1.7	1.2	1.4	1.3	1.5			
24	2.0	1.9	2.6	2.4	3.0	2.9	2.9	1.7	1.2	1.4	1.3	1.5			
25	2.3	2.2	2.5	2.4	2.8	3.1	2.9	1.5	1.2	1.5	1.3	1.6			
26	2.9	2.2	2.5	2.3	2.4	3.0	2.9	1.3	1.2	1.6	1.3	1.6			
27	3.0	2.3	2.5	2.0	2.6	3.0	2.8	1.3	1.2	1.5	1.3	1.6			
28	3.1	2.0	2.4	2.0	2.6	3.0	2.6	1.3	1.2	1.5	1.3	1.6			
29	3.7	2.4	2.3	2.1	2.8	3.0	2.4	1.4	1.2	1.4	1.3	1.6			
30	3.7	2.5	2.1	2.2		3.1	2.3	1.5	1.2	1.4	1.3	1.6			
31	4.4	2.5	2.1	2.0		3.3	2.3	1.3	1.1	1.4	1.3	1.6			
	4.3		2.2	2.1		3.1	2.3	1.4		1.3	1.3				
Total	89.9	86.0	77.7	69.8	71.5	97.6	90.2	51.1	36.4	41.8	24.9	42.6			
Ac-ft	178.3	170.6	154.1	138.5	141.8	193.7	178.9	101.6	72.1	82.9	85.1	84.5			

COLORADO PRINTING CO. GRAND JUNCTION, COLO.

1981 Total SFD 797.5
 1981 Total Ac. Ft. 1,581.8

* Irrigation season started

Table 2.2.3-8
 CB-TRACT
 STEVENS RECORDER WATER LEVELS
 MOBIL WELLS
 FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL
			MW12
YR	MO	DAY	DEPTH (FT)
81	5	27	6304.61
		28	6304.59
		29	6305.67
		30	6305.67
		31	6305.67
	6	1	6305.67
		2	6305.67
		3	6305.67
		4	6305.67
		5	6305.67
		6	6305.67
		7	6305.67
		8	6305.67
		9	6305.67
		10	6310.39
		11	6310.35
		12	6310.39
		13	6310.34
		14	6310.26
		15	6310.14
		16	6310.14
		17	6310.22
		18	6310.18
		19	6319.72
		20	6319.72
		21	6319.72
		22	6319.72
		23	6319.72
		24	6319.72
		25	6319.72
		26	6319.72
		27	6319.72
		28	6319.72
		29	6319.72
		30	6319.72
	7	1	6319.73
		2	6319.73
		3	6319.71
		4	6319.71
		5	6319.72
		6	6319.72
		7	6319.72
		8	6320.13
		9	6320.22
		10	6320.22

Table 2.2.3-8 (cont)
CB-TRACT
STEVENS RECORDER WATER LEVELS
MORIL WELLS
FOR SAMPLE DATE SHOWN

WELL ID - FT FROM GROUND LEVEL

MW12

DEPTH

YR	MO	DY	DEPTH (FT)
81	7	11	6320.22
		12	6320.22
		13	6320.22
		14	6320.22
		15	6317.54
		16	6317.54
		17	6317.54
		18	6317.54
		19	6317.53

Table 2.2.3-9

CB-TRACT
 STEVENS RECORDER WATER LEVELS FOR SEEPAGE WELLS
 FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL	
			WW13	DEPTH
YR	MO	DY	(FT)	
81	5	1	6620.60	
		2	6621.09	
		3	6621.45	
		4	6621.80	
		5	6621.94	
		6	6622.45	
		7	6622.53	
		8	6624.02	
		9	6624.16	
		10	6624.47	
		11	6624.89	
		12	6625.02	
		13	6625.04	
		14	6625.04	
		15	6626.46	
		16	6626.57	
		17	6626.77	
		20	6636.86	
		21	6637.00	
		22	6637.00	
		23	6637.00	
		24	6637.00	
		25	6637.93	
		26	6638.12	
		27	6638.13	
		28	6638.69	
		29	6638.88	
		30	6638.95	
		31	6639.38	
	6	1	6639.67	
		2	6639.98	
		3	6640.29	
		4	6641.06	
		5	6642.28	
		6	6642.56	
		7	6642.90	
		8	6642.93	
		9	6642.93	
		10	6642.94	
		11	6644.32	
		12	6644.54	
		13	6644.95	
		14	6644.97	
		15	6644.97	
		16	6644.98	
		17	6645.95	

Table 2.2.3-9 (cont)

CB-TRACT
 STEVENS RECORDER WATER LEVELS FOR SEEPAGE WELLS
 FOR SAMPLE DATE SHOWN.

			WELL ID - FT FROM GROUND LEVEL
YR	MO	DY	WW13 DEPTH (FT)
81	6	18	6646.32
		19	6646.50
		20	6646.51
		21	6647.35
		22	6647.67
		23	6641.70
		24	6641.70
		25	6643.12
		26	6643.31
		27	6644.06
		28	6644.53
		29	6644.93
		30	6645.16
	7	1	6645.60
		2	6645.94
		3	6646.22
		4	6646.44
		5	6646.45
		6	6646.45
		7	6646.46
		8	6647.79
		9	6648.00
		10	6648.22
		11	6648.47
		12	6648.74
		13	6649.00
		14	6649.24
		15	6649.47
		16	6649.74
		17	6650.00
		18	6650.27
		19	6650.49
		20	6650.70
		21	6650.91
		22	6651.16
		23	6651.41
		24	6651.62
		25	6651.83
		26	6652.06
		27	6673.04
		28	6673.04
	8	4	6641.10
		5	6642.04
		6	6642.87
		7	6643.27
		8	6643.54

Table 2.2.3-9 (cont)
 CB-TRACT
 STEVENS RECORDER WATER LEVELS FOR SEEPAGE WELLS
 FOR SAMPLE DATE SHOWN

			WELL ID - FT FROM GROUND LEVEL
			WW13
YR	MO	DY	DEPTH (FT)
81	8	9	6643.80
		10	6644.01
		11	6644.13
		12	6644.33
		13	6644.55
		14	6644.72
		15	6644.83
		16	6644.93
		17	6645.08
		18	6645.25
		19	6645.40
		20	6645.50
		21	6645.62
		22	6645.73
		23	6645.85
		24	6645.99
		25	6646.11
		26	6646.20
		27	6653.17
		28	6656.17
		29	6656.39
		30	6656.66
		31	6656.87
	9	1	6657.01
		2	6657.15
		3	6657.27
		4	6657.33
		5	6656.42
		6	6657.52
		7	6657.53
		8	6657.53
		9	6657.55
		10	6657.66
		11	6657.77
		12	6657.80
		13	6657.84
		14	6657.92
		15	6658.00
		16	6658.04
		17	6658.05
		18	6658.07
		19	6658.11
		20	6658.20
		21	6658.29
		22	6658.36
		23	6658.43
		24	6658.51
		25	6658.58
		26	6658.72
		27	6658.71
		28	6658.72
		29	6658.78
		30	6658.89

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2.2.4 Water Quality Assurance

Early in 1981 a formal water monitoring quality assurance program was implemented for the Cathedral Bluffs Shale Oil Company. The program is documented in a manual, "Quality Assurance Program for Hydrology", issued February 1981. The Quality Assurance Program is an effort to fully document all of the procedures used in the water monitoring program from initial sampling through data handling and reporting. It includes sampling methodology and logging, field tests, analytical methods and quality control in the laboratory, data recordkeeping and inspection, and outlier detection and response.

All aspects of the program are subject to revision as needed with final approval authority resting with Occidental's Environmental Services Department. A historical record is kept of approved revisions along with their effective date in the Department files. Any deviations from the monitoring procedures documented in the Quality Assurance manual, such as might occur in response to an unusual event in the field, must be fully reported in the appropriate logbook.

The procedures formulated in the Quality Assurance Program for Hydrology are designed to comply with monitoring and analytical practices approved by the Environmental Protection Agency, the United States Geological Survey and other appropriate groups.

In conjunction with implementation of the Quality Assurance Program, the Occidental Environmental Services Department carries out routine assessment inspections of the field sites to evaluate the operation of the program. These inspections have been helpful in maintaining full compliance with the quality assurance procedures, making necessary adjustments to the program, and introducing alterations suggested by the experience of the field monitoring personnel.

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